REPORT DOCUMENTATION PAGE

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1. REPORT DATE 14-10-2016 2. REPORT TYPE final						3. DATES COVERED (From - To) March 2016 - October 2016			
4. TITLE AND SUBTITLE 12th international Congress of Neuroethology					5a. CO	5a. CONTRACT NUMBER N62909-19-1-2062			
					5b. GR	5b. GRANT NUMBER			
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						5c. PROGRAM ELEMENT NUMBER 1000004141			
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Associate Professor Facultad de Ciencias						N00014-16-R-BA01			
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	for Neuroetho	ology, P.O. Box ational Congres	ADDRESS(ES) 1897, Lawrence, KS 6 ss of Neuroethology, Fa			8. PERFORMING ORG REPORT NUMBER	ANIZATION		
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13. SUPPLEMENTAL	RY NOTES								
scientific meeting of the For the first time, the I countires of 5 continen Program Committee corganization of ICN20 Presidential Symposius previous ICNs, with a continuous I	te International (CN2016 took pluts. The Local Ob-chairs, Dr. Ma 16 Program, with 12 contribute clear bias towar and program bo	Society for Neuro lace in South Am- rganizing Commurtin Giurfa (Paul th two founders lord ed symposia, four ds Latin America	pethology (ISN, www.net erica, becoming the majorittee was formed by reprint Sabatier University, Francectures (Heiligenberg and participant symposia, an	aroethology.org) or Neuroscience mesentatives from Unice) and Dr. Jose I Huber Lectures) d two poster sessionnts), most attended.	hat promotes to seeting ever held Jruguay, Argent Pena (Albert-Eir , seven plenary l ons. The ICN20 ling the ICN for	alternate the venue for IC I in Uruguay with 519 part	red by Dr. Ana Silva. The e, USA), coordinated the stigator Awards talks, a of participants than		
International Co First time in So	uth Americ	ca							
519 participants	s, 32 count	ries, 5 conti	inents, 30% from	South Ame	erica	Y			
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF	19a. NAME OF RESPONSIBLE PERSON				
a. REPORT b. A	b. ABSTRACT	c. THIS PAGE	UU	PAGES	ANA SILVA	IONE III			
					19b. TELEPH +598 99584156	HONE NUMBER (Includ	e area code)		
						Standa	ard Form 298 (Rev. 8/98)		

FEDERAL FINANCIAL REPORT (Follow form instructions) 1. Federal Agency and Organizational Element Federal Grant or Other Identifying Number Assigned by Federal Agency to Which Report is Submitted (To report multiple grants, use FFR Attachment) Office of Naval Research Global N62909-19-1-2062 3. Recipient Organization (Name and complete address including Zip code) Facultad de Ciencias, Iguá 4225, 11400 Montevideo, URUGUAY 4a. DUNS Number 4b. EIN 5. Recipient Account Number or Identifying Number 6. Report Type 7. Basis of Accounting (To report multiple grants, use FFR Attachment) □ Quarterly ☐ Semi-Annual 966008323 ☐ Annual 901-179-002609-0 x Final x Cash

Accrual 8. Project/Grant Period Reporting Period End Date From: (Month, Day, Year) To: (Month, Day, Year) (Month, Day, Year) 03/30/2016 04/03/2016 06/20/2016 10. Transactions Cumulative (Use lines a-c for single or multiple grant reporting) Federal Cash (To report multiple grants, also use FFR Attachment): 11724.82 a. Cash Receipts 11724.82 b. Cash Disbursements c. Cash on Hand (line a minus b) (Use lines d-o for single grant reporting) Federal Expenditures and Unobligated Balance: d. Total Federal funds authorized e. Federal share of expenditures

i. Federa	snare of unliquid	ated obligations							
g. Total F	ederal share (sum	of lines e and f)							
h. Unoblig	gated balance of F	ederal funds (line d m	ninus g)						
Recipient S	hare:								
i. Total re	cipient share requ	ired							
j. Recipie	ent share of expen	ditures							
k. Remain	ing recipient share	to be provided (line i	minus j)						
Program Inc	ome:								
I. Total Fe	deral program inco	ome earned					-		
m. Prograi	m income expende	ed in accordance with	the deduction alternative						
n. Progran	n income expende	d in accordance with	the addition alternative						Ξ
o. Unexpe	nded program inc	ome (line I minus line	m or line n)						
	a. Type	b. Rate	c. Period From	Period To	d. Base	e. Amount	Charged	f. Federal Share	
11. Indirect									
Expense									
				g. Totals:					

12. Remarks: Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation:

13. Certification: By signing this report, I certify that it is true, complete, and accurate to the best of my knowledge. I am aware that any false, fictitious, or fraudulent information may subject me to criminal, civil, or administrative penalities. (U.S. Code, Title 18, Section 1001)

a. Typed or Printed Name and Title of Authorized Certifying Official

Ana Silva

b. Signature of Authorized Certifying Officia

Associate Professor, Facultad de Ciencias

c. Telephone (Area code, number and extension) +598 99584156

d. Email address

asilva@fcien.edu.uy

e. Date Report Submitted (Month, Day, Year)

10/14/2016

14. Agency use only:

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XIII Congress

International Society for Neuroethology

March 30th - April 3rd, 2016

Satellite Activities: March 28 - 30, 2016

Radisson Montevideo Victoria Plaza Hotel

www.icn2016.uy

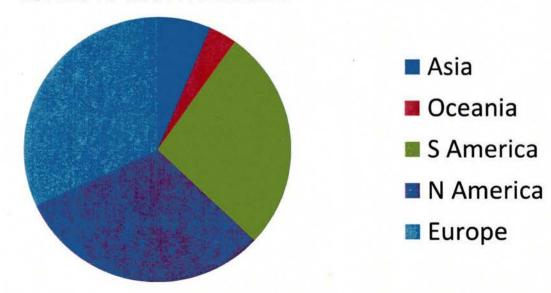


ATTENDEES

495 ATTENDEES 24 ACCOMPANYING PERSONS

32 COUNTRIES: 30% LATIN AMERICAN

ICN2016 MONTEVIDEO







III Latin American School of Neuroethology

March 20 - April 3, 2016

Buenos Aires, Argentina - Montevideo, Uruguay

Organizers: Lidia Szczupak, Argentina & Daniel Tomsic, Argentina

Coordination in Uruguay: Kent Dunlap, USA; Adriana Migliaro, Uruguay; Ana Silva, Uruguay; Lucía

Zubizarreta, Uruguay

Faculty: Ana Amador, Argentina; Fernanda Ceriani, Argentina; Kent Dunlap, USA; Martin Giurfa, France; Jan Hemmi, Australia; Kim Hoke, USA; John Lewis, Canada; Fernando Locatelli, Argentina; Gabriel Mindlin, Argentina; Emanuel Mora, Cuba; Lauren O'Connell, USA; Jose Luis Peña, USA; Ana Silva, Uruguay; Lidia Szczupak, Argentina; Daniel Tomsic, Argentina



Students: Iván Beltrán, Colombia; Agustina Cano, Argentina; Susana Delgado, Cuba; Dardo Ferreiro, Brazil, Dennis Francos, Cuba; Marina Galleazzo, Brazil, Linda Hernández, Colombia; Estela Lanza, Argentina; Matías Muñoz, Chile, Melisa Pavez, Chile, Lizeth Pedraza, Colombia; Sofía Polcowñuk, Argentina; Mauro Ramírez, Brazil; Guillermo Rehermann, Uruguay; Federico Reyes, Uruguay; Esteban Salazar, Chile; Rodrigo Sierra, Brazil





III Latin American School of Neuroethology March 20 – April 3, 2016 Buenos Aires, Argentina – Montevideo, Uruguay







Electric Fish: Electrosensory and Electromotor Systems

March 28-29, 2016

Instituto de Investigaciones Biológicas Clemente Estable, Montevideo, Uruguay

Organizers: Angel Caputi, Uruguay; Marita Castelló, Uruguay, Len Maler, Canada; Laura Quintana,

Uruguay; Gerhard von der Emde, Germany

LOC Hosts: Angel Caputi & Laura Quintana, Uruguay

67 attendees



Amphibian Brains Behavior and Evolution

March 29, 2016

Presidencia de la República, Montevideo, Uruguay

Organizers: Kim Hoke, USA; Lauren O'Connell, USA, Eric Zornik, USA

LOC Host: Paula Pouso, Uruguay

28 attendees





Auditory Processing, Sound Production, and Motor Control

March 29, 2016

Museo de Historia Natural Carlos Torres de la Llosa, Montevideo, Uruguay

Organizers: Ana Amador, Argentina; Sarah Bottjer, Ufrederick Theunnissen, USA; Daniel Margoliash,

USA; Coen Elemans, Denmark

LOC Host: Javier Nogueira, Uruguay

48 attendees



Vision with Few Photons

March 29, 2016

Centro de la Cooperación Española, Montevideo, Uruguay

Organizers: Almut Kelber, Sweden; Carola Yovanovich, Sweden

LOC Host: Ana Silva, Uruguay

42 attendees





Neuroethology of Disease Vector Insects

March 29, 2016

Facultad de Química, Universidad de la República, Montevideo, Uruguay

Organizers: Claudio Lazzari, France; Marcelo Lorenzo, Brazil

LOC Host: Andrés González, Uruguay

28 attendees



Neural and Behavioral Plasticity in Social Insects

March 29, 2016

Facultad de Química, Universidad de la República, Montevideo, Uruguay

Organizers: Walter Farina, Argentina; Jean Marc Devaud, France

LOC Host: Andrés González, Uruguay

68 attendees





Post-Congress Course

Electrosensory system, development and evolution & Reproduction of tropical freshwater fishes with Special focus on gymnotiforms and mormyrids April 4-15, 2016, Instituto de Investigaciones Biológicas Clemente Estable, Montevideo, Uruguay Organizer: Marita Castelló, Instituto de Investigaciones Biológicas Clemente Estable, Uruguay Faculty included 16 attendees to the ICN2016



Post-Congress Course

Lessons from neuroethology to Cognitive Neuroscience March 29 -April 7, 2016, Espacio Interdisciplinario, UdelaR, Montevideo, Uruguay Organizer: Juan Valle Lisboa, Facultad de Psicología, UdelaR, Uruguay Faculty included 12 attendees to the ICN2016



Post-Congress Course

Introductory Course to New generation sequentiation techniques

April 4-8, 2016, Instituo Pasteur-Montevideo, Facultad de Ciencias, UdelaR, Montevideo, Uruguay

Organizer: Laura Quintana, Instituto de Investigaciones Biológicas Clemente Estable, Uruguay

Faculty included 4 attendees to the ICN2016





II Meeting of Neuroethology in the Southern Cone

March 30, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

Organizers: Jose Alves-Gomes, Brazil; Martín Berón de Astrada, Argentina; Fernando Locatelli,

Argentina; Violeta Medan, Argentina; Theo Mota, Brazil; Rossana Perrone, Uruguay; Natalia Uriarte,

Uruguay; Nelson Velasquez, Chile

Coordination: Rossana Perrone, Uruguay; Natalia Uriarte, Uruguay

200 attendees

Speakers: Andrés Vidal-Gadea, Uruguay-USA; Gabriel Mindlin, Argentina; Alessandra Guarneri, Brazil; Rodrigo Suárez, Chile-Australia; Matías Pandolfi, Argentina; Rodrigo Vázquez, Chile; Jerome Braon, Brazil; Daniella Agrati, Uruguay, Alejandro Delorenzi, Argentina; Eduardo Benedicto Ottoni, Brazil; Patricio Ahumada; Chile; Claudio Lazzari, Argentina-France; Laura Quintana, Uruguay













2 Distinguished Conferences

The Franz Huber Lecture
 Gene Robinson, Illinois University, USA
 March 31, 2016
 Radisson Victoria Plaza Convention Center, Montevideo, Uruguay



The Walter Heiligenberg Lecture
 Dora Angelaki, Baylor College of Medicine, USA
 April 2, 2016
 Radisson Victoria Plaza Convention Center, Montevideo, Uruguay







7 Plenary Lectures

- Catharine Rankin, University of British Columbia, Canada March 31, 2016,
- Adam Kepecs, Cold Spring Harbor Laboratory, USA April 1, 2016
- Anupama Dahanukar, University of California Riverside, USA
 April 1, 2016
- Daniel Tomsic, Universidad de Buenos Aires, Argentina April 2, 2016







7 Plenary Lectures

- Suzana Herculano-Houzel, Universidade de Rio De Janeiro, Brazil April 2, 2016
- Richard Benton, University of Lausanne, Switzerland April 3, 2016
- Andreas Nieder, University of Tubingen, Germany April 3, 2016







Presidential Symposium

March 31, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

- Kenneth Catania, Vanderbilt University, USA
- Stephanie White, University of California, Los Angeles, USA
- Emanuel Mora, University of Havana, Cuba
- Baldomero Olivera, University of Utah, USA
- Daniel Robert, Bristol University, UK
- Tetsuro Matsuzawa, Kyoto University, Japan













Young Investigators Award Symposium

April 1, 2016 Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

- Arseny Finkelstein, Weizmann Institute of Science, Israel
- Carola Städele, Illinois State University, USA
- Avner Wallach, University of Ottawa, Canada
- Sara Wasserman, University of California, Los Angeles, USA







Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

I. BEHAVIORAL AND NEURAL GENOMICS OF SOCIALITY Chair: Rui F. Oliveira, Gulbenkian Institute of Science, Portugal

II. COMPARATIVE VIEW OF THE OPTIC TECTUM: A GLIMPSE INTO THE EVOLUTION OF GOAL-ORIENTED BEHAVIORS AND ATTENTION IN VERTEBRATES

Chairs: Germán Sumbre, Ecole Normale Supériere, Paris, France and Yoram Gutfreund, Institute of Technology, Haifa, Israel

III. SENSORIMOTOR INTEGRATION IN VOCAL PRODUCTION AND LEARNING IN SONGBIRDS Chair: Ana Amador, University of Buenos Aires, Buenos Aires, Argentina





Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

IV. FAR FROM A 'FEATHER BRAIN': HIGHER COGNITIVE FUNCTIONS AND THEIR NEURAL SUBSTRATES IN FISH Chair: Leonard Maler, University of Ottawa, Canada

V. NEUROETHOLOGY OF PARALLEL OLFACTORY PROCESSING IN INSECTS AND VERTEBRATES Chairs: Jean-Christophe Sandoz, National Centre for Scientific Research, France and Wolfgang Rössler, University of Würzburg, Germany

VI. MIRROR NEURONS IN PRIMATES
Chair: Pier Francesco Ferrari, University of Parma, Italy





12 Invited Symposia

April 3, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

VII. NEURONAL MECHANISMS UNDERLYING TARGET DETECTION

Chairs: Paloma Gonzalez-Bellido, Cambridge University, UK and Karin Nordström, Uppsala University, Sweden

VIII. THE COGNITIVE APPROACH TO BEHAVIOR AND ITS LESSONS FOR NEUROSCIENCE

Chair: Juan Valle Lisboa, Universidad de la República, Uruguay

IX. NEWS ON THE SENSORY WORLD OF BIRDS

Chair: Christine Köppl, Carl von Ossietzky University, Germany

X. NEURAL MECHANISMS OF SPATIAL PERCEPTION AND NAVIGATION

Chair: Khaleel Razak, University of California, USA

XI. EVOLUTIONARY MECHANISMS OF SENSORY LOSS AND REGAIN

Chairs: Jakob Christensen-Dalsgaard, University of Southern Denmark, Denmark and Kim Hoke, Colorado State

University, USA

XII. A BRAIN WITHIN THE BRAIN: SENSORY INTEGRATION AND NETWORK LOGIC OF THE DROSOPHILA

CIRCADIAN CLOCK

Chairs: Fernanda Ceriani, Institute Leloir, Argentina and Joerg Albert, University College London, UK

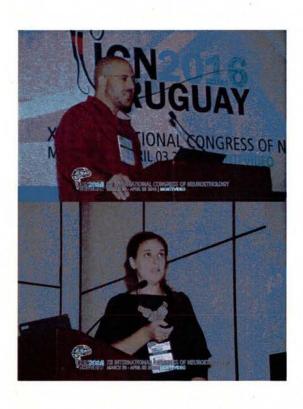




3 Participant Symposia + ISN/Neuroframes Symposium

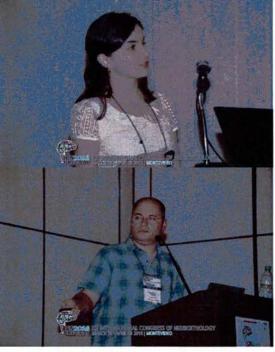
April 1, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay













2 Poster Sessions

Session I
 March 31, 2016
 Radisson Victoria Plaza Convention Center, Montevideo, Uruguay
 18 Topics
 140 posters

Session II
 April 2, 2016
 Radisson Victoria Plaza Convention Center, Montevideo, Uruguay
 18 Topics
 141 posters







Opening Session

March 30, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

- Welcome Speeches

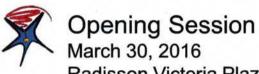
Ana Silva, 2016 ICN Local Organizing Committee, Chair Martín Giurfa & José Luis Peña, 2016 ICN Program Comittee Co-Chairs Peter Narins, International Society for Neuroethology, President Roberto Markarián, Universidad de la República, Chancellor Gabriel Aintablián, Ministerio de Educación y Cultura, on behalf of the Minister











Radisson Victoria Plaza Convention Center, Montevideo, Uruguay









Opening Session

March 30, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

Neuroethology: Tales from South America

Chairs: Angel Caputi & Leonel Gómez

Documentary of the history of Neuroethology and its model systems in South America

Homage to mentors of South American Neuroethology

Welcome to the Far South, Omar Macadar, Uruguay

The Potential and Promise of Neuroethology for Latin America: A View from the North, John Hildebrand,

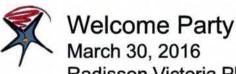
USA











Radisson Victoria Plaza Convention Center, Montevideo, Uruguay

Tango Show
 Mario Penna & band







Art Exhibition COLECTIVONEGROS March 30- April 3, 2016

Radisson Victoria Plaza Convention Center, Montevideo, Uruguay







Photo Gallery Stories of Mind Mysteries April 1- June 2, 2016 Espacio a Cielo Abierto-Ciudad Vieja, Montevideo, Uruguay

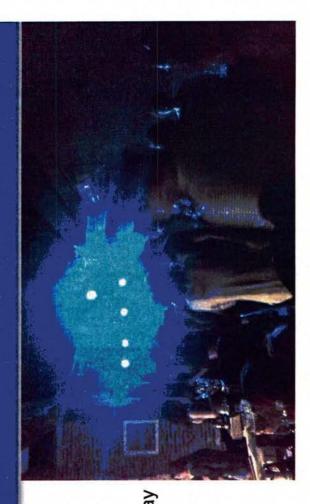








Student-Postdoc Mixer
April 1, 2016
Complejo Cultural Platea Sur, Montevideo, Uruguay

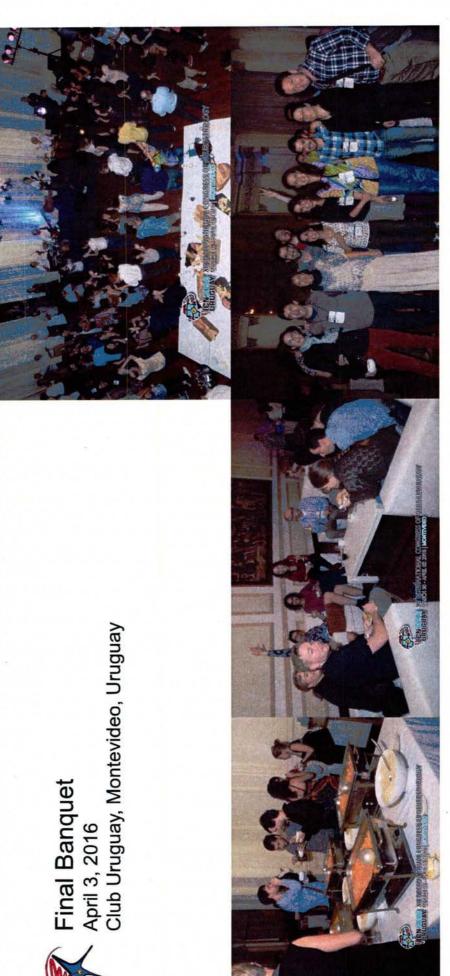
































































































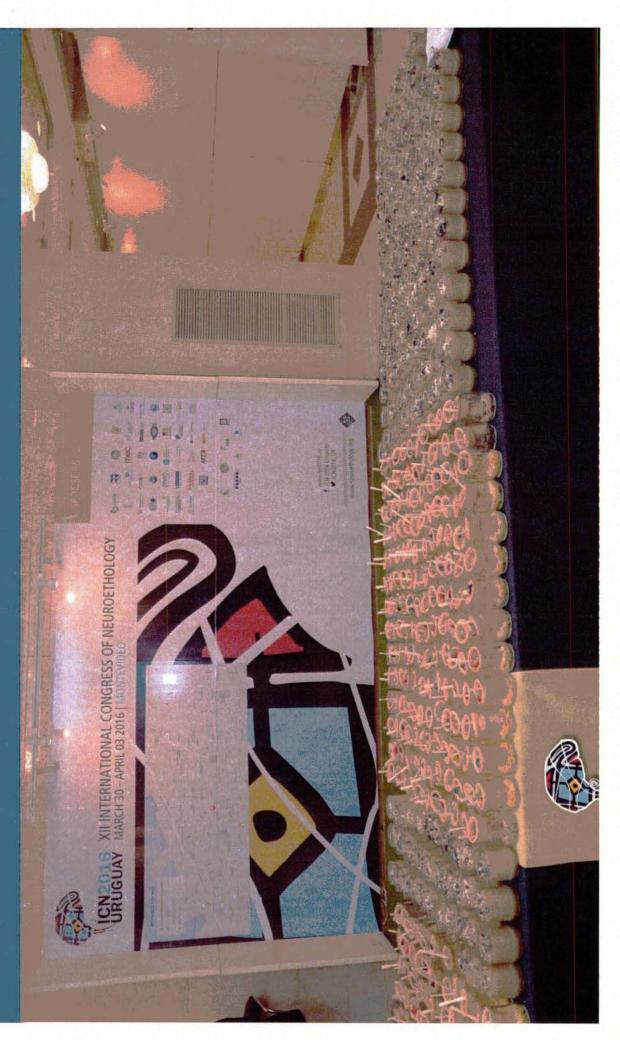




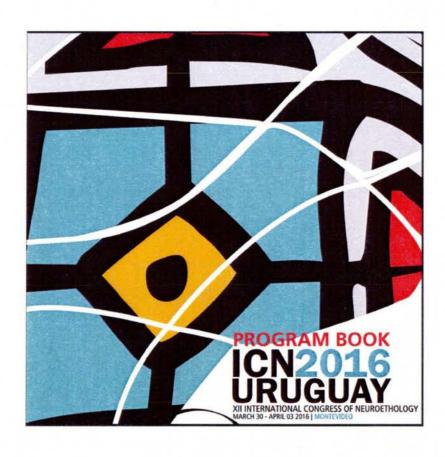






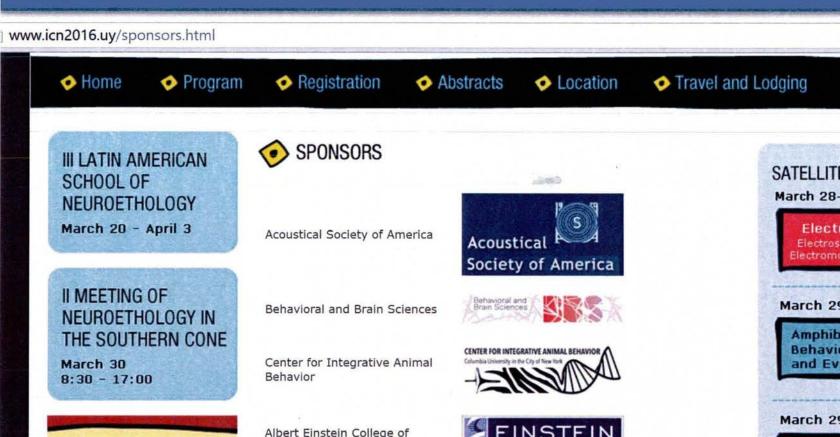












REGISTRATIONS

Late registrations are open.

Registrations will be accepted on site Albert Einstein College of Medicine

The Company of Biologists

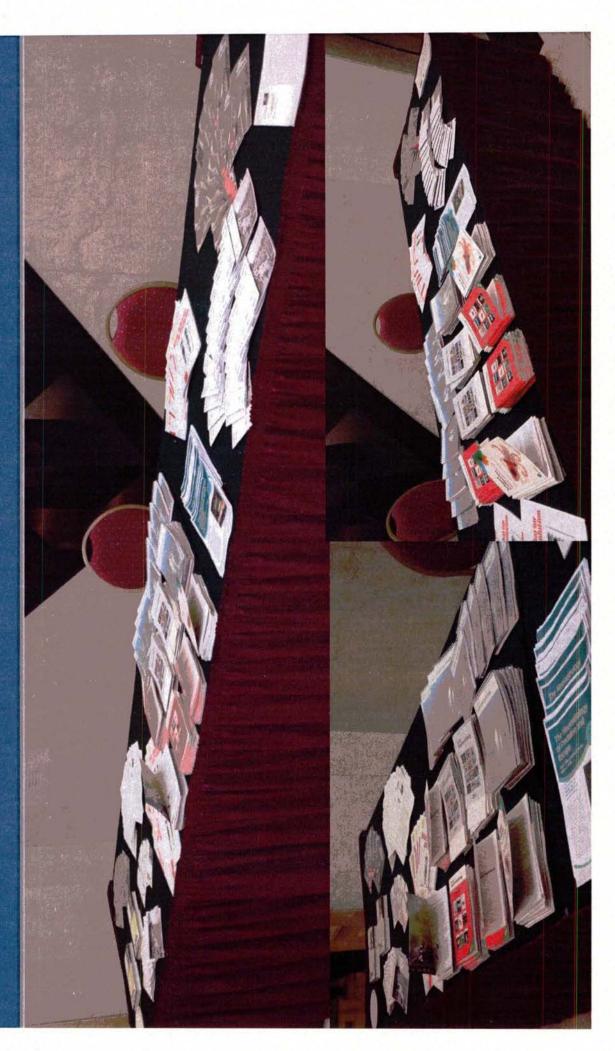




SATELLITE MEETINGS March 28-29 Electric Fish Electrosensory and Electromotor systems March 29 **Amphibian Brains** Behavior, and Evolution March 29 Auditory processing sound production and motor control March 29 Neuroethology of disease

About us







PRESS RELEASES



Montevideo Portal: http://www.montevideo.com.uy/auc.aspx?303429



Portal UdelaR: http://www.universidad.edu.uy/prensa/renderItem/itemId/38706/refererPageId/12



La República: http://www.republica.com.uy/uruguay-recibe-al-congreso-internacional-neuroetologia/563343/



La Diaria: http://www.icn2016.uy/download/ladiaria press.pdf



Búsqueda: http://www.busqueda.com.uy/nota/hay-una-interaccion-entre-la-genetica-y-el-comportamiento-social-para-avanzar-es-necesario-ser/ls-575-ccc9ca8267b1d23bf2dd



Neuroethology: Tales from South America: www.youtube.com/watch?v=qZBGYDdPdDg



ABOUT US



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President:

Peter Narins, UCLA, USA

President-Elect:

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Past President:

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Karen Mesce, University of Minnesota, USA

Secretary:

Susan Fahrbach, Wake Forest University, USA



ABOUT US



International Congress of Neuroethology 2016

www.neuroethology.org

Local Organizing Committee

Chair: Ana Silva, Fac. de Ciencias, UdelaR - Instituto de Investigaciones Biológicas Clemente Estable, MEC

Jose Alves-Gomes, Instituto Nacional Pesquisas da Amazonia, Brazil

Gervasio Batista, Albert Einstein College of Medicine, USA

Angel Caputi, Instituto de Investigaciones Biológicas Clemente Estable, MEC

Annabel Ferreira, Fac. de Ciencias, UdelaR

Leonel Gómez, Fac. de Ciencias, UdelaR

Andrés González, Fac. de Química, UdelaR

Omar Macadar, Fac. de Medicina, UdelaR – Instituto de Investigaciones Biológicas Clemente Estable, MEC

Adriana Migliaro, Fac. de Ciencias, UdelaR – Instituto de Investigaciones Biológicas Clemente Estable, MEC

Javier Nogueira, Fac. de Medicina, UdelaR

Mario Penna, Universidad de Chile, Chile

Rossana Perrone, Instituto de Investigaciones Biológicas Clemente Estable, MEC

Paula Pouso, Fac. de Medicina, UdelaR – Instituto de Investigaciones Biológicas Clemente Estable, MEC

Laura Quintana, Instituto de Investigaciones Biológicas Clemente Estable, MEC

Lidia Szczupak, Universidad de Buenos Aire, Argentina

Daniel Tomsic, Universidad de Buenos Aires, Argentina

Lucía Zubizarreta, Fac. de Medicina, UdelaR – Instituto de Investigaciones Biológicas Clemente Estable, MEC



ABOUT US



Program Committee

Chairs:

Martín Giurfa, Research Centre on Animal Congnition, France

José Luis Peña, Albert Einstein College of Medicine, USA

Heather Eisthen, Michigan State University, USA
Ichiro Fujita, University of Osaka, Japan
Jeremy Niven, University of Sussex, UK
Justin Marshall, University of Quensland, Australia
Carmen Sandi, EPFL, Switzerland
Lidia Szczupak, University of Buenos Aires, Argentina
Barbara Webb, University of Edinburgh, UK
Sarah Woolley, Columbia University, USA





































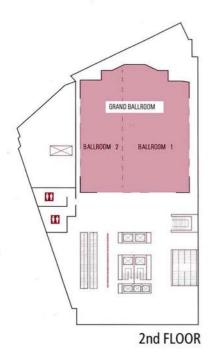
ICN 2016 SCHEDULE INTERNATIONAL SOCIETY FOR NEUROTHOLOGY

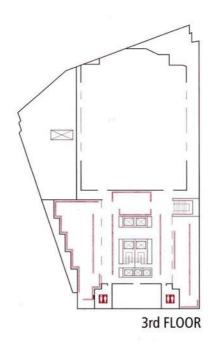
	MARCH 28-29	WEDNESDAY, MARCH 30	THURSDAY, MARCH 31	
8:30 - 9:00				
9:00 - 10:00		II MEETING NEUROETHOLOGY OF THE	JCPA PRESIDENTIAL SYMPOSIUM K. Catania, S. White	
10:00 - 10:30		SOUTHERN CONE SYMPOSIUM I	COFFEE BREAK	
		COFFEE BREAK		
10:30 - 12:30		II MEETING NEUROETHOLOGY OF THE SOUTHERN CONE SYMPOSIUM II	JCPA PRESIDENTIAL SYMPOSIUM E. Mora, T. Olivera, D. Robert, T. Matsuzawa	
12:30 - 14:00		LUNCH	LUNCH / ISN EXEC-COUNCIL MEETING	
14:00 - 15:00	- 15:00 SATELLITE WORKSHOPS	II MEETING NEUROETHOLOGY OF THE SOUTHERN CONE SYMPOSIUM III	PLENARY LECTURE 1 C. Rankin	
	WORKSHOPS	COFFEE BREAK		
15:00 - 17:30		II MEETING NEUROETHOLOGY OF THE SOUTHERN CONE SYMPOSIUM IV	POSTER SESSION I	
17:30 - 18:00				
18:00 - 19:00		OPENING CEREMONY I. Organizer Remarks II. Neuroethology: Tales from South America III. Reception		
19:00 - 20:00			FRANZ HUBER LECTURE G. Robinson	
20:00 - 21:00				
21:00 - 24:00				

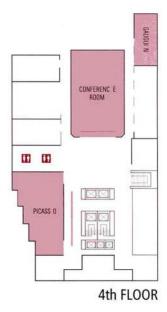
FRIDAY, APRIL 0 1	SATURDAY, APRIL 0 2	SUNDAY, APRIL 0 3	
PLENARY LECTURE 2 A. Kepecs	PLENARY LECTURE 4 D. Tomsic COFFEE BREAK	PLENARY LECTURE 6 R. Benton	
COFFEE BREAK		COFFEE BREAK	
CONCURRENT INVITED SYMPOSIA I. Behavioral and neural genomics of sociality II. Comparative view of the optic tectum: A glimpse into the evolution of goal-oriented behaviors and attention in vertebrates III. Sensorimotor integration in vocal production and learning in songbirds	CONCURRENT INVITED SYMPOSIA IV. Far from a 'feather brain': higher cognitive functions and their neural substrates in fish V. Neuroethology of parallel olfactory processing in insects and vertebrates VI. Mirror neurons in primates	CONCURRENT INVITED SYMPOSIA VII. Neuronal mechanisms underlying target detection VIII. The cognitive approach to behavior and its lessons for neuroscience IX. News on the sensory world of birds LUNCH CAREER-DEVELOPMENT SESSIONS	
LUNCH			
PLENARY LECTURE 3 A. Dahanukar	PLENARY LECTURE 5 S. Herculano-Houzel	PLENARY LECTURE 7 A. Nieder	
COFFEE BREAK		COFFEE BREAK	
CONCURRENT PARTICIPANT SYMPOSIA Participant Symposium - A Participant Symposium - B Participant Symposium - C ISN/Neuro-Frames Symposium	POSTER SESSION II	CONCURRENT INVITED SYMPOSIA X. Neural mechanisms of spatial perception ar navigation XI. Evolutionary mechanisms of sensory loss ar regain XII. A brain within the brain: Sensory integration and network logic of the <i>Drosophila</i> circadian clock	
COFFEE BREAK		COFFEE BREAK	
YOUNG INVESTIGATOR AWARDS SYMPOSIUM A. Finkelstein, C. Städele, A. Wallach,		ISN BUSINESS MEETING	
S. Wasserman	WALTER HEILIGENBERG LECTURE D. Angelaki	ISIN DOSINICS MILLTING	
PHOTO EXHIBIT Stories of mind mysteries		Walk to banquet	
STUDENT / POST-DOC MIXER			

CONVENTION CENTER INFORMATION

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016







The Radisson Montevideo Victoria Plaza, conveniently situated in the city's main square, Plaza Independencia, making it easy to access local attractions, such as the historic Iglesia Matriz, the Museo del Gaucho y de la Moneda and the charming shops of Ciudad Vieja.

The 3-story Convention Center offers full-equipped meeting rooms and exhibition facilities as well as the on-site restaurant on the 25th floor, or the conveniently located Victoria Bistró with the drinks, snacks and international menu.

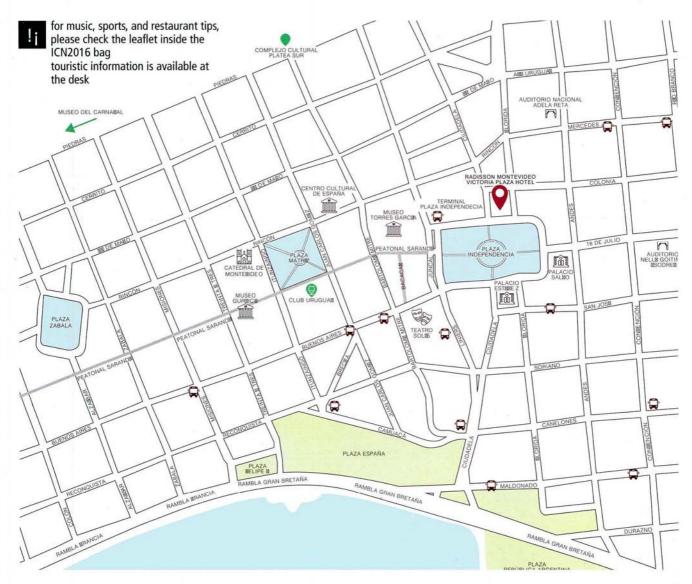
Address: Plaza Independencia 759 - Montevideo 11100 Uruguay

Phone: 2-902-0111

Website: http://www.radisson.com

CITY MAP - MONTEVIDEO

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016



WELCOME MESSAGE INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

Dear ISNers and Honored Guests.

It is my great pleasure to welcome you all to the 2016 International Congress of Neuroethology (ICN2016) which is being held in the Radisson Montevideo Victoria Plaza Hotel in scenic downtown Montevideo from March 30-April 3, 2016.

The Program Committee- chaired by Jose Luis Peña and Martin Giurfa- has done an outstanding job to ensure that the science being presented is first-class, and that program is truly international and enlightening. Moreover, the Local Organizing Committee- chaired by the indefatigable Ana Silva- has worked diligently to ensure that the meeting runs smoothly, with ample opportunity for scientific and personal interaction, while emphasizing the uniquely Latin flavor of our first ICN in the South American continent.

I recognize that many of us have had to travel long distances to attend this Congress. But from my own experience, I can truly say that every trip I have made to Uruguay has been highly memorable, scientifically rewarding, and infused with the natural warmth of the people who live in this unique country.

I cordially invite you to fully participate in all aspects of the Congress and to enjoy your stay in Montevideo, ranked by the 2015 Mercer Quality of Living Survey as #1 in Latin America.

¡Espero que lo pasen bárbaro!

Peter Narins President, ISN

EXECUTIVE COUNCIL

President

Peter M. Narins, University of California Los Angeles, USA

President-Elect

Catharine Rankin, University of British Columbia, Canada

Past President

Alison Mercer, University of Otago, New Zealand

Treasurer

Karen Mesce, University of Minnesota, USA

Secretary

Susan E. Fahrbach, Wake Forest University, USA

PROGRAM COMMITTEE INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

Dear Attendees

It is our special pleasure to welcome you to the 12th International Congress of Neuroethology in Montevideo, Uruguay. We have scheduled nine cutting-edge plenary lectures, twelve exciting symposia, three carefully-selected participant symposia, five career development sessions and two poster sessions that we hope you will enjoy.

Such rich and exciting program would not have been possible without your collaboration. We want, therefore, to thank all the speakers, symposium chairs and poster presenters that will contribute to the excellence of this event.

This ICN has a unique, historical importance for being the first time in over three decades since the inception of the conference that it takes place in South America. We see this as a signal of growth and vitality that will benefit the ISN in years to come.

Though living in France and the United States our South American roots make both of us particularly honored and touched welcoming you to the ICN2016 in Montevideo.

We wish you an inspiring and memorable experience at ICN2016.

Martín Giurfa, CNRS — University of Toulouse José Luis Peña, Albert Einstein College of Medicine, USA

PROGRAM COMMITTEE

Martín Giurfa - Co-Chair CNRS -University of Toulouse, France
José Luis Peña - Co-Chair Albert Einstein College of Medicine, USA
Heather Eisthen
Michigan State University, USA
Ichiro Fujita
University of Osaka, Japan
Jeremy Niven
University of Sussex, UK

Justin Marshall
University of Quensland, Australia
Carmen Sandi
Ecole Polytechnique Federale de Lausanne,
Switzerland
Lidia Szczupak
University of Buenos Aires, Argentina
Barbara Webb
University of Edinburgh, UK
Sarah Woolley
Columbia University, USA

LOCAL ORGANIZING COMMITTEE INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

Dear ICN2016 attendees,

On behalf of the Local Organizing Committee, it is my great pleasure to welcome you all to the 12th edition of the International Congress of Neuroethology. It has been a fruitful 30-year journey for Neuroethology, since the first congress of our Society took place in Tokyo, in 1986. Carrying on the foundational principles of our Society was at the center of our mission, honored and excited to host the first meeting of the International Society for Neuroethology in Latin America.

We aimed to promote diversity in its broadest sense, guided by the firm belief that diversity is fundamental to our Society. Though traveling to Montevideo may seem a long journey to some attendees, we are proud and thankful to the nearly 500 participants from 32 countries attending the ICN2016. The changing destination of Neuroethology meetings makes sense in a double positive loop: it allows underrepresented groups to attend the ICN and it benefits our Society with the special flavor that each host may impinge to the global ICN. It is encouraging to see that 30% of ICN2016 attendees belong to Latin American countries, and that most of them are attending the meeting for the first time.

The ICN2016 is the largest and most important basic Neuroscience meeting ever held in Uruguay and its organization has strongly impacted on our neuroscience community. We deeply thank all our local, regional and international sponsors that made possible the ICN2016.

I would finally like to welcome you to Montevideo, this endearing South American capital city facing Río de la Plata with a blend of European and Latin American flavors. I trust you will have the chance to discover its magic corners as well as the warmth of its people.

One more thing: Thank you so very much for being here!!

All my best, Ana Silva, Chair, Local Organizing Committee

LOCAL ORGANIZING COMMITTEE

Ana Silva - Chair - Universidad de la República-Ministerio de Educación y Cultura, Uruguay
Jose Alves-Gomes - Instituto Nacional Pesquisas da Amazônia, Brazil
Angel Caputi - Ministerio de Educación y Cultura, Uruguay
Annabel Ferreira - Universidad de la República, Uruguay
Leonel Gómez - Universidad de la República, Uruguay
Andrés González - Universidad de la República, Uruguay
Omar Macadar - Universidad de la República-Ministerio de Educación y Cultura, Uruguay
Javier Nogueira - Universidad de la República, Uruguay
Mario Penna - Universidad de Chile, Chile
Rossana Perrone - Ministerio de Educación y Cultura, Uruguay
Laura Quintana - Ministerio de Educación y Cultura, Uruguay
Lidia Szczupak - Universidad Buenos Aires, Argentina
Daniel Tomsic - Universidad Buenos Aires, Argentina
Gervasio Batista - PhD student - Albert Einstein College of Medicine, USA
Adriana Migliaro - PhD student - Universidad de la República-Ministerio de Educación y Cultura, Uruguay

Paula Pouso - PhD student - Universidad de la República-Ministerio de Educación y Cultura, Uruguay Lucía Zubizarreta - PhD student - Universidad de la República-Ministerio de Educación y Cultura, Uruguay

GENERAL INFORMATION

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

1 RECEPTION DESK

The reception desk will open 9:00 - 19:00 on Wednesday, March 30 through Sunday April 3. All the attendees are expected to go to the reception desk to pick-up name tags and ICN2016 bag. On-site registration is also available at the desk.

2 PRESENTATIONS

Oral sessions

Lectures and symposia will be held in rooms 1, 2 (Ballroom, 2nd Floor), in the Conference Room (4th Floor), and in the Picasso room (4th Floor), each equipped with a high power DLP projector. We will have a PC reception desk at the convention center to facilitate projection tests in advance. Speakers will be advised to go to the PC reception desk well before the session starts to upload their presentations to the system. Assistance for projector connections and sound amplification will be provided. Only plenary lecturers may use their own computers (Windows or Mac). Mac users are advised to provide their own connection cable.

Poster sessions

The 2nd, 3rd and 4th Floor facilities will be open for poster presentations throughout the congress, and each presenter will have a one-hour time slot allocated for his/her presentation duringthe 4-hour poster session (15:00-19:00). Posters scheduled for session 1 (Thu-Fri) should be hung in the morning (from 08:30 Thu) and should be removed by the evening of the next day (before 19:30 Fri). Posters scheduled for session 2 (Sat-Sun) should be hung in the morning (from 08:30 Sat) and should be removed by the evening of the next day (before 17:00 Sun). A wide poster board space (150 cm wide \times 120 cm height) will be prepared for each poster. U-tac and adhesive tape will be provided. No electric sockets will be available near the poster boards.

3 OPENING CEREMONY & WELCOME PARTY

The opening ceremony will start at 17:30 on Wednesday March 30 followed by the welcome party at the Ballroom (2nd Floor).

4 BANQUET

On April 03, after the business meeting (20:00), a short walk (5 min) will take participants from the ICN2016 venue to the banquet at Club Uruguay.

Address: Peatonal Sarandi 584

SOCIAL - CULTURAL ACTIVITIES INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016



WELCOME PARTY

At the opening session of ICN2016 at the Radisson Montevideo Victoria Plaza Hotel (Ballroom), highly qualified musicians and performers will welcome congress attendees with a Latin American ambiance amidst the harmonies of Tango.

The visceral resonance of the bandoneón -the iconic instrument for this music genre-, merging with original simple yet poetic lyrics and complementary scripts, will serve to introduce the audience to the spirit and circumstances of the Rio de la Plata Region and its inhabitants. Conceivably, the show will convey cues of how different or similar the human condition of local neuroethologists might be, from that of their foreign visiting counterparts.

Invited artists: Mario Penna & band

Time: 19:00

Place: Radisson Montevideo Victoria Plaza (Ballroom)



ART EXPOSITION COLECTIVONEGROS

ColectivoNegros is a multidisciplinary group that uses diverse media for art installations. Their creative process starts with research and reflection on specific topics, to generate pieces where poetry, social issues and humor are combined. For this special occasion, the group will visit "The world of Neuroethology"

Date/Time: During the congress

Place: Radisson Montevideo Victoria Plaza (Hallways)



OUTDOOR PHOTO GALLERY "A CIELO ABIERTO"

The Photo exhibition "Stories of mind mysteries" will be held in the outdoor gallery: "A cielo abierto" ("Under the open sky"). This open gallery belongs to the Centro de Fotografía de Montevideo and is located at a charming corner of Ciudad Vieja (http://cdf. montevideo.gub.uy/)

Date: Opening April 01 - 20:00 through Jun 01

Time: 24 hours

Place: Piedras Street, across from the Plaza of the "Museo del Carnaval"

STUDENT/POST DOC MIXER

Date: April 01 Time: 21:00

Place: Complejo Cultural Platea Sur, Bartolomé Mitre 1472

III LATIN AMERICAN SCHOOL OF NEUROETHOLOGY INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

MARCH 20 - APRIL 3

III LATIN AMERICAN SCHOOL OF NEUROETHOLOGY

The III Latin American School of Neuroethology is a bi-national initiative (Argentinian and Uruguayan) aimed to promote Neuroethology in South America, and to train Latin American graduate students in cutting-edge topics and approaches of this discipline. It is conceived as an associated event to the XII International Congress of Neuroethology that, for the first time in 30 years, will be held in the Southern Hemisphere, in South America.

The School is organized in two modules held in Buenos Aires (first week, MARCH 20 – MARCH 26) and Montevideo (second week, MARCH 26 – APRIL 3).

ORGANIZERS

Lidia Szczupak, Universidad de Buenos Aires, Argentina Daniel Tomsic, Universidad de Buenos Aires, Argentina

ASSISTANT ORGANIZERS:

Adriana Migliaro, Universidad de la República — Ministerio de Educación y Cultura, Uruguay Lucía Zubizarreta, Universidad de la República — Ministerio de Educación y Cultura, Uruguay COORDINATION:

First week: Lidia Szczupak, Univ. de Buenos Aires, Argentina / Daniel Tomsic, Univ. de Buenos Aires, Argentina Second week: Kent Dunlap, Trinity College, USA / Ana Silva, Universidad de la República — Ministerio de Educación y Cultura, Uruguay

FACULTY

Ana Amador, Universidad de Buenos Aires, Argentina

Fernanda Ceriani, Instituto Leloir, Argentina

Kent Dunlap, Trinity College, USA

Martin Giurfa, CNRS -University of Toulouse, France Jan Hemmi, University of Western Australia, Australia

Kim Hoke, Colorado State University, USA John Lewis, University of Ottawa, Canada

Fernando Locatelli, Universidad de Buenos Aires, Argentina Gabriel Mindlin, Universidad de Buenos Aires, Argentina Emanuel Mora, Universidad de la Habana, Cuba Lauren O'Connell, Harvard University, USA

Jose Luis Pena, Albert Einstein College of Medicine, USA

Ana Silva, Universidad de la República – Ministerio de Educación y Cultura, Uruguay

Lidia Szczupak, Universidad de Buenos Aires, Argentina Daniel Tomsic, Universidad de Buenos Aires, Argentina

SELECTED STUDENTS

Iván Camilo Beltrán Arévalo, Colombia Agustina Cano, Argentina Susana Delgado Ocaña, Cuba Dardo Ferreiro, Brazil Dennis Francos, Cuba Marina Galleazzo Martins, Brazil Linda Carolina Hernández Duran, Colombia Estela Manuela Lanza, Argentina Matías Muñoz, Chile Melissa Pavez, Chile Lizeth Pedraza, Colombia Sofía Polcowñuk, Argentina Mauro Federico Ramírez, Brazil Guillermo Rehermann del Río, Uruguay Federico Reyes Blengini, Uruguay Juan Esteban Salazar, Chile



Theoretical classes and practical demonstrations, Facultad de Ciencias Exactas y Naturales, 26 UBA, Buenos Aires



Rodrigo Alejandro Sierra Ordoñez, Brazil



Field trip and field work on the classical South American neuroethology models, weakly electric fish and crab. Departamento de Maldonado, Uruguay.



Workshop on Bioengineering. Facultad de Ciencias, Montevideo.



Satellite Meetings



II Meeting on Neuroethology of the Southern Cone



XII International Congress of Neuroethology. Student's poster presentation at the poster sessions of the XII International Congress of Neuroethology



News&Views style essay's writing and discussion on one recent article authored by investigators assisting to the XII International Congress of Neuroethology. "Meet the experts" session within the XII International Congress of Neuroethology where students discuss the News&Views articles (Introduced by William Kristan). Sala Gauguin, Radisson Victoria Plaza, Montevideo

PROGRAM SATELLITE ACTIVITIES

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

MARCH 28 - 29

09:00 - 20:00 SATELLITE WORKSHOPS

ELECTRIC FISH

A workshop covering the subjects of electrosensory and electromotor systems, as well as communication, cognition, navigation, neuroendocrinology, development and evolution of the nervous system of electroreceptive animals.

Organizing Committee:

Angel Caputi (coordinator, IIBCE, Uruguay), María Castelló (IIBCE, Uruguay), Len Maler (University of Ottawa, Canada), Laura Quintana (IIBCE, Uruguay),

Gerhard von der Emde (University of Bonn, Germany)

Venue: Instituto de Investigaciones Biológicas Clemente Estable

Address: Av. Italia 3318

MARCH 29

09:00 - 20:00 SATELLITE WORKSHOPS

AMPHIBIAN BRAINS, BEHAVIOR, AND EVOLUTION

A meeting centered on the neurobiological basis of amphibian behavior, including motor pattern generation, prey capture, spinal cord regeneration, acoustic communication, parental care, and reproductive behavior.

Organizing Committee:

Kim Hoke (Coordinator and Contact Person, Colorado State University, USA), Lauren O'Connell (Harvard University, USA), Erik Zornik (Reed College, USA), Ian Hall (Columbia University, USA)

Venue: Presidencia de la República Address: Plaza Independencia 700

AUDITORY PROCESSING, SOUND PRODUCTION AND MOTOR CONTROL

A meeting to discuss how the central nervous system integrates auditory and motor information to enable communication, including auditory perception, sound production, motor and neural coding in a variety of model systems.

Organizing Committee:

Ana Amador (Coordinator and Contact Person, Universidad de Buenos Aires, Argentina), Sarah Bottjer (University of Southern California, USA), Frederick Theunnissen (University of California at Berkeley, USA), Daniel Margoliash (University of Chicago, USA), Claudio Mello (Oregon Health and Science University, USA), Coen Elemans (University of Southern Denmark, Denmark)

Venue: Museo Torres de la LLosa Address: Eduardo Acevedo 1427

NEUROETHOLOGY OF DISEASE VECTOR INSECTS

A workshop focused on sensory and behavioral adaptations of insects that feed on vertebrate blood, including recent findings on the molecular and sensory bases of perception, cognitive abilities, and mechanisms behind behavioral manipulation by parasites.

Organizing Committee:

Claudio R. Lazzari (University of Tours, France), Marcelo G. Lorenzo (FIOCRUZ, Brazil)

Venue: Facultad de Química - Universidad de la República

Address: Gral, Flores 2124

NEURAL AND BEHAVIORAL PLASTICITY IN SOCIAL INSECTS

A symposium to explore how experience in a broad sense can modulate behavior in diverse social insect species, and how this can be implemented at the neural level.

Organizing Committee:

Jean-Marc Devaud (Université Toulouse III - Paul Sabatier, France), Walter Farina (Universidad de Buenos Aires, Argentina)

Venue: Facultad de Química - Universidad de la República

Address: Gral. Flores 2124

VISION WITH FEW PHOTONS: RETINAL ADAPTATIONS AND BEHAVIOURAL STRATEGIES IN NOCTURNAL VERTEBRATES

A meeting focused on visual sensitivity and the adaptations that allow animals to use vision in dim light, inspired by the need of enhancing the communication between neurobiologists working on dim light vision with ethologists working on various animal groups.

Organizing Committee:

Almut Kelber, Carola Yovanovich (Lund University, Sweden)

Venue: Centro de Formación de la Cooperación Española

Address: 25 de Mayo 520

II MEETING OF NEUROETHOLOGY OF THE SOUTHERN CONE

MARCH 30

08:30 - 08:50 REGISTRATION II MEETING NEUROETHOLOGY OF THE SOUTHERN CONE-MONTEVIDEO, URUGUAY

Venue: Radisson Montevideo Victoria Plaza Hotel

Conference Room (4th Floor)

08:50 - 09:00 Welcome words

09:00 - 10:45 SYMPOSIUM I

Detection and orientation to the earth's magnetic field by the nematode *C. elegans*

Dr. Andrés Vidal-Gadea, Molecular Neuroethology Lab, School of Biological Sciences, Illinois State University, USA

Listening to a bird's dream

Dr. Gabriel Mindlin, Laboratorio de Sistemas Dinámicos, Departamento de Física, Universidad de Buenos Aires, Argentina

Behavioral changes in triatomines infected with trypanosomes influence parasite transmission

Dra. Alessandra Guarneri, Centro de Pesquisas René Rachou - Fiocruz, Brazil

Deep-time epigenesis of neocortical circuits (or how to make a mammalian brain)

Dr. Rodrigo Suárez, Queensland Brain Institute, The University of Queensland, Australia

10:45 - 11:15 Coffee break

11:15 - 12:30 SYMPOSIUM II

Neuroendocrine regulation of social and reproductive behavior in a cichlid fish

Dr. Matías Pandolfi, Laboratorio de Neuroendocrinología y Comportamiento, Departamento de Biodiversidad y Biología Experimental, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina

Octodon degus, a new model species for basic and applied neuroethology?

Dr. Rodrigo Vásquez, Instituto de Ecología y Biodiversidad, Departamento de Ciencias Ecológicas, Facultad de Ciencias, Universidad de Chile, Chile

Emergence of feature selectivity in the visual wulst of owls

Dr. Jerome Baron, Departmento de Fisiologia e Biofísica, Instituto de Ciencias Biológicas, Universidade Federal de Minas Gerais, Brazil

12:30 - 14:00 Lunch

14:00 - 15:15 SYMPOSIUM III

Sexual behavior of the female rat at different life time periods

Dra. Daniella Agrati, Sección Fisiología y Nutrición, Facultad de Ciencias, Universidad de la República, Uruguay

From crabs to humans: thirst and stress unveil unexpressed memories

Dr. Alejandro Delorenzi, Laboratorio de Neurobiología de la Memoria, Instituto de Fisiología y Biología Molecular, Universidad de Buenos Aires, Argentina

Tool use and behavioral traditions in tufted capuchin monkeys (Sapajus spp.)

Dr. Eduardo Benedicto Ottoni, Instituto de Psicología, Departmento de Psicología Experimental, Universidade de São Paulo, Brazil

15:15 - 15:45 Coffee break

15:45 - 17:00 SYMPOSIUM IV

Where are located the cognitive skills of birds?

Dr. Patricio Ahumada, Laboratorio de estudios ontogenéticos, Facultad de Medicina, Universidad de Chile, Chile

Motivation is everything: endogenous modulation and plasticity of the response to host signals in disease vector insects

Dr. Claudio Lazzari, Institut de Recherche sur la Biologie de l'Insecte, Univ. François Rabelais, Faculté des Sciences et Techniques, Franço

Estrogens, brain and behavior: a new look at non-breeding aggression in fish

Dra. Laura Quintana, Unidad Bases Neurales de la Conducta, Instituto de Investigaciones Biológicas Clemente Estable, Uruguay

17:00 - 17:10 Closing remarks

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

MARCH 30

17:30 - 22:00

OPENING CEREMONY

Grand Ballroom (2nd Floor)

Welcome Speeches

Ana Silva, Local Organizing Committee, Chair

Martín Giurfa and José Luis Peña, Program Comittee, Co-Chairs Peter Narins, International Society for Neuroethology, President Roberto Markarián, Universidad de la República, Chancellor María Muñoz, Ministerio de Educación y Cultura, Minister

Neuroethology: Tales from South America

Chairs: Angel Caputi and Leonel Gómez

Documentary of the history of Neuroethology and its model systems in South America

Homage to mentors of South American Neuroethology

The Potential and Promise of Neuroethology for Latin America: A View from the North

John Hildebrand, University of Arizona, USA

Welcome to the Far South

Omar Macadar, Universidad de la República-Ministerio de Educación y Cultura, Uruguay

Welcome Party

Tango concert by Mario Penna & his band

MARCH 31

09:00 - 10:00

JCPA PRESIDENTIAL SYMPOSIUM

Grand Ballroom (2nd Floor)

Chair: Peter Narins, University of California Los Angeles, USA / President of the International Society for Neuroethology

09:00

The shocking predatory strike of the electric eel

Kenneth Catania, Vanderbilt University, USA

09:30

Cycling in the brain: Molecular microcircuits for learned vocalization

Stephanie White, University of California Los Angeles, USA

10:00 - 10:30

Coffee break

10:30 - 12:30	JCPA PRESIDENTIAL SYMPOSIUM Grand Ballroom (2nd Floor) Chair: Peter Narins, University of California, Los Angeles, USA
10:30	Bat echolocation vs. moth hearing: evolution of tactics and countertactics Emanuel Mora, University of Havana, Cuba
11:00	Biodiversity of fish-hunting cone snails: correlating genetics and pharmacology to behavior Baldomero Olivera, University of Utah, USA
11:30	Detection of floral electrostatic fields by bumblebees Daniel Robert, Bristol University, UK
12:00	The evolutionary origins of human cognitive development: insights from research on chimpanzees Tetsuro Matsuzawa, Kyoto University, Japan
12:30 - 14:00	Lunch / ISN EXEC-COUNCIL MEETING Gauguin Room (4th Floor) ISN Executive and Council Meeting
14:00 - 15:00	PLENARY LECTURE 1 Grand Ballroom (2nd Floor) Presenter: Peter Narins, University of California Los Angeles, USA
	Catharine Rankin, University of British Columbia, Canada Response based analyses of behavior overlook other important behavioral changes: integrating habituation into ongoing behavior
15:00 - 19:00	POSTER SESSION I Hallways (2nd, 3rd and 4th Floor) See pages 30 to 41 for detailed Poster Session I Program
19:00 - 20:00	FRANZ HUBER LECTURE Grand Ballroom (2nd Floor) Presenter: Andrew Barron, Macquarie University, Australia
	Gene Robinson, University of Illinois, USA Understanding the relationship between genes and social behavior: lessons from the honey bee

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

APRIL 01

09:00 - 10:00 PLENARY LECTURE 2

Grand Ballroom 1 (2nd Floor)

Presenter: Kenta Asahina, Salk Institute for Biological Studies, USA

Adam Kepecs, Cold Spring Harbor Laboratory, USA Confidence in rats, humans, and mathematics

10:00 - 10:30 Coffee break

10:30 -12:30 CONCURRENT INVITED SYMPOSIA

I. BEHAVIORAL AND NEURAL GENOMICS OF SOCIALITY

Grand Ballroom 1 (2nd Floor)

Chair: Rui F. Oliveira, Gulbenkian Institute of Science, Portugal

10:35 Deep homology in the neuromolecular mechanisms underlying vertebrate social behavior

Hans Hofmann, University of Texas at Austin, USA

11:05 Gene-function analyses of molecular networks relevant for learned behaviors in birds and fruit-

flies

Constance Scharff, Universitat Berlin, Germany

11:35 Communication networks in zebrafish: neuromolecular mechanisms and cognitive abilities for

social communication

Rui F. Oliveira, Gulbenkian Institute of Science, Portugal

12:05 Ancestral imprints on descendant nervous systems

Brian Dias, Emory University, USA

II. COMPARATIVE VIEW OF THE OPTIC TECTUM: A GLIMPSE INTO THE EVOLUTION OF GOAL-ORIENTED BEHAVIORS AND ATTENTION IN VERTEBRATES

Grand Ballroom 2 (2nd Floor)

Chairs: Germán Sumbre, Ecole Normale Supériere, France and Yoram Gutfreund, Technion - Israel Institute of Technology, Israel

10:35 Function and development of the optic tectum circuitry in the zebrafish larva

Germán Sumbre, Ecole Normale Supériere, France

11:05 Saliency map in the archer fish optic tectum

Ronen Segev, Ben-Gurion University, Israel

11:35 Circuits and computations underlying stimulus selection in the owl midbrain

Shreesh Mysore, John-Hopkins University, USA

	12:05	The central role of the primate superior colliculus in coding saliency, priority, and orienting Douglas Munoz, Queens's University, Canada
	IN MEMORIAM: Conference Room	MOTOR INTEGRATION IN VOCAL PRODUCTION AND LEARNING IN SONGBIRDS ALLISON DOUPE (4th Floor) or, University of Buenos Aires, Buenos Aires, Argentina
	10:35	Universal mechanisms of sound production and control in birds and mammals Coen P.H. Elemans, University of Southern Denmark, Denmark
	11:05	Variability in action: basal ganglia-forebrain circuits in vocal learning and plasticity Mimi H. Kao, Tufts University, USA
	11:35	Hormone-dependent vocal communication in songbirds Manfred Gahr, Max Planck Inst. for Ornithology, Seewiesen, Germany
	12:05	Biomechanical models to study the neural bases of birdsong production Ana Amador, University of Buenos Aires, Argentina
12:30 - 14:00	Lunch	
14:00 - 15:00	PLENARY LEC Grand Ballroom 1 Chair: Silke Sachs	
	Anupama Dahanukar, UC Riverside, USA The hungry fly: Taste receptors, circuits and the control of feeding behavior	
15:00 - 15:30	Coffee break	
15:30 - 17:30	CONCURREN	T PARTICIPANT SYMPOSIA
	Grand Ballroom 1	SYMPOSIUM - A 1 (2nd Floor) Rankin, University of British Columbia, Canada
	15:30	Honeybee interneurons responsive to the pulsed vibration produced by waggle dance Hiroyuki Ai, Fukuoka University, Japan
	15:50	Genetic and neural mechanisms governing the sexual dimorphism of agonistic behavior in Drosophila melanogaster
		Kenta Asahina, Salk Institute for Biological Studies, USA

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

16:10	Do motor neurons regulate premotor vocal rhythms? Erik Zornik, Reed College, USA
16:30	Neuronal activation in the preoptic area during agonistic behavior in the weakly electric fish, Gymnotus omarorum Paula Pouso, Universidad de la República - Ministerio de Educación y Cultura, Uruguay
16:50	Representation of conspecifics by bat hippocampal place cells David Omer, Weizmann Institute of Science, Israel
17:10	Sensory adaptation to the social environment through spike-timing-dependent plasticity in mormyrid electric fish Bruce Carlson, Washington University St. Louis, USA

PARTICIPANT SYMPOSIUM - B

Grand Ballroom 2 (2nd Floor)

Chair: Paul Katz, Georgia State University, USA

15:30	Homing in desert dung beetles - an accurate navigation system without landmarks Jochen Smolka, Lund University, Sweden
15:50	A novel motion-sensitive pathway connecting the optic lobes and the central complex of a nocturnal bee Anna Honkanen, Lund University, Sweden
16:10	The circuit basis ON directional selectivity in the <i>Drosophila</i> visual system Michael Reiser, Janelia Farm Research Campus, USA
16:30	Distributed neural prediction in amphibian prey capture William Mowrey, Janelia Farm Research Campus, USA
16:50	Multi-modal and multi-dimensional sensory perception in bats Alexandra Danilovich, Tel Aviv University, Israel
17:10	Visual cortex responses of cats and agoutis: an electrophysiological comparison Dardo Ferreiro, Federal University of Rio Grande do Norte, Brazil

PARTICIPANT SYMPOSIUM - C

Picasso Room (4th Floor)

Chair: Alison Mercer, University of Otago , New Zealand

15:30 Molecular basis of mechanosensation in tactile-foraging ducks Eve Schneider, Yale University, USA

	15:50	Using multiple source of information to visualize structure in behavioral data Roian Egnor, Janelia Farm Research Campus, USA
	16:10	Circuitry of sensory representation in mushroom body calyx of <i>Drosophila</i> larva Liria Masuda Nakagawa, University of Cambridge, UK
	16:30	Neurochemical underpinnings of morphine addiction in ants Mark Seid, University of Scranton, USA
	16:50	Persistent activation of nitric oxide synthase (NOS) is involved in a novel "molecular long-term memory switch" in the vertical lobe of the octopus Ana Turchetti-Maia, Hebrew University, Israel
	17:10	Towards the connectome of <i>Octopus vulgaris</i> : how an advanced invertebrate neural-circuit supports behavioral and biological plasticity Graziano Fiorito, Stazione Zoologica Anton Dohm, Italy
	Conference Room (AMES SYMPOSIUM 4th Floor) i, Ministerio de Educación y Cultura, Uruguay
	15:45	Arthropod's peripheral visual neurons shape behavioral responses to object motion stimuli Martín Berón de Astrada, Universidad de Buenos Aires, Argentina
	16:05	A radial map of selectivity to multi-whisker correlation in the rat barrel cortex Laurent Bourdieu, Ecole Normale Supérieure, Paris, France
	16:25	Pheromones as modulators of insect behavior Nina Deisig, Institut d'Ecologie et des Sciences de l'Environnement de Paris, France
	16:45	Early processing of electrosensory images in pulse gymnotiformes Angel Caputi, Instituto de Investigaciones Biológicas Clemente Estable, Uruguay
	17:05	Shape recognition based on artificial electric sense for underwater robotics Frederic Boyer, École des Mines de Nantes, France
17:30 - 18:00	Coffee break	
18:00 - 20:00	Grand Ballroom 1 (TIGATORS AWARD SYMPOSIUM 2nd Floor) z, University of Oklahoma, USA
18:00	bats	by mixed-dimensionality neurons across behavioral modes: insights from head-direction cells in Weizmann Institute of Science, Israel

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

18:30 Neuromodulators stabilize neural network function over a broad temperature range

Carola Städele, Illinois State University, USA

19:00 Representation of whisker self-motion in the early stages of the vibrissal system

Avner Wallach, University of Ottawa, Canada

19:30 Multimodal sensory integration underlying decision-making in flying *Drosophila*

Dr. Sara Wasserman, University of California, Los Angeles, USA

20:00 -21:00 PHOTO EXHIBIT

Piedras Street, across from the Plaza of the "Museo del Carnaval"

The Photo exhibition "Stories of mind mysteries" will be held in the outdoor gallery:

"A cielo abierto" ("Under the open sky"). This open gallery belongs to the Centro de Fotografía de Montevideo and is

located in a charming corner of Ciudad Vieja

21:00 -24:00 STUDENT / POST-DOC MIXER

Complejo Cultural Platea Sur Address: Bartolomé Mitre 1472

APRIL 02

8:30 - 9:30 PLENARY LECTURE 4

Grand Ballroom 1 (2nd Floor)

Presenter: Laura Quintana, Ministerio de Educación y Cultura, Uruguay

Daniel Tomsic, University of Buenos Aires, Argentina

Neurobiology of visually guided prey and predator behaviors in crabs

9:30 - 10:00 Coffee break

10:00 - 12:00 CONCURRENT INVITED SYMPOSIA

IV. FAR FROM A 'FEATHER BRAIN': HIGHER COGNITIVE FUNCTIONS AND THEIR NEURAL SUBSTRATES IN FISH

Grand Ballroom 1 (2nd Floor)

Chair: Leonard Maler, University of Ottawa, Canada

10:05 Not the ABC, but the IEGs of fish learning - indication for an involvement of the telencephalon in

selected cognitive tasks

Theodora Fuss, University of Bonn, Germany

10:35	Organization of the telencephalon of weakly electric gymnotiform fish: the neural bases of spatial learning
	Leonard Maler, University of Ottawa, Canada
11:05	Combination of cognitive skills in archerfish Stefan Schuster, University of Bayreuth, Germany
11:35	Conserved function of the corticobasal ganglia circuits in the zebrafish decision-making Merlin Lange, RIKEN, Japan
Grand Ballroo	THOLOGY OF PARALLEL OLFACTORY PROCESSING IN INSECTS AND VERTEBRATES m 2 (2nd Floor) Thristophe Sandoz, National Centre for Scientific Research, France and Wolfgang Rössler, University of Würzburg, Germany
10:05	Neural circuits underlying odor valence and intensity perception in <i>Drosophila</i> Silke Sachse, Max Planck Institute, Germany
10:35	Plasticity in the mouse olfactory bulb following motherhood Adi Mizrahi, Hebrew University, Israel
11:05	Parallel processing of odor information in honeybees Martin F. Brill, CSHL, USA
11:35	Parallel processing of sulfated steroid odorants in the dual olfactory system of an anuran amphibian Ivan Manzini, University of Göttingen, Germany
Conference Ro	R NEURONS IN PRIMATES pom (4th Floor) nncesco Ferrari, University of Parma, Italy
10:15	Mirror neurons in macaque monkeys. From basic mechanism to the extended network Pier Francesco Ferrari, University of Parma, Italy
10:50	Action execution and observation in the chimpanzee brain Erin Hecht, Emory University, USA
11:25	Single-cell level, mirror neurons in marmosets frontal cortex and neuroanatomy Noritaka Ichinohe, National Institute of Neuroscience Tokyo, Japan

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

12:00 - 14:00 Lunch / CAREER-DEVELOPMENT SESSIONS

Picasso Room (4th Floor)

Finding the right postdoctoral position

Mentors: Susan Fahrbach, Wake Forest University, USA; Manfred Gahr, Max Planck Institute for Ornithology, Germany; Paul Katz, Georgia State University, USA; Justin Marshall, University of Queensland, Australia; Eric Warrant, Lund University, Sweden

Writing grant and fellowship applications

Mentors: Karen Mesce, University of Minnesota, USA; Cindy Moss, Johns Hopkins University, USA; José Luis Peña, Albert Einstein College of Medicine, USA; Catharine Rankin, University of British Columbia, Canada; Harold Zakon, University of Texas, USA

14:00 - 15:00 PLENARY LECTURE 5

Grand Ballroom 1 (2nd Floor)

Presenter: Daphne Soares, University of Maryland, USA

Suzana Herculano-Houzel, Universidade Federal do Rio de Janeiro, Brazil

Brain diversity in evolution: what changes, what doesn't - and what does it matter?

15:00 - 19:00 **POSTER SESSION II**

Hallways (2nd, 3rd and 4th Floor)

See pages 42 to 53 for detailed Poster Session II Program

19:00 - 20:00 THE WALTER HEILIGENBERG LECTURE

Grand Ballroom 1 (2nd Floor)

Presenter: José Luis Pena, Albert Einstein College of Medicine, USA

Dora Angelaki, Baylor College of Medecine, USA

Merging of our senses: Building blocks and canonical computations

APRIL 03

09:00 - 10:00 PLENARY LECTURE 6

Grand Ballroom 1 (2nd Floor)

Presenter: Jean Christophe Sandoz, French National Centre for Scientific Research, France

Richard Benton, University of Lausanne, Switzerland

Evolution of olfactory circuits

10:00 - 10:30 Coffee break

10:30 -12:30 CONCURRENT INVITED SYMPOSIA

VII. NEURONAL MECHANISMS UNDERLYING TARGET DETECTION FISH

Grand Ballroom 1 (2nd Floor)

Chairs: Paloma Gonzalez-Bellido, Cambridge University, UK and Karin Nordström, Uppsala University, Sweden

10:35 Stereo vision and prey detection in the praying mantis

Vivek Nityananda, University of Wisconsin, USA

11:05 ITD maps and temporal precision Catherine Carr, University of Maryland, USA

11:35 Are feature detection and optic flow analysis segregated in crabs?

Julieta Sztarker, Universidad de Buenos Aires, Argentina

12:05 Neural circuits for prey capture in zebrafish larvae

Julie Semmelhack, Max Planck Institute, Germany

VIII. THE COGNITIVE APPROACH TO BEHAVIOR AND ITS LESSONS FOR NEUROSCIENCE

Grand Ballroom 2 (2nd Floor)

Chair: Juan Valle Lisboa, Universidad de la República, Uruguay

10:35 Evolutionary economics: Decision-making under uncertainty in chimpanzees, bonobos, and

humans

Alexandra Rosati, Harvard University, USA

11:05 What insects can tell us about the origins of consciousness

Andrew Barron, Department of Biological Sciences at Macquarie University, Australia

11:35 Temporal memory in individual neurones in the cerebellum

Germund Hesslow, Lund University, Sweden

12:05 Information theory and stochastic model selection in associative learning and memory

Charles Randy Gallistel, Rutgers University, USA

IX. NEWS ON THE SENSORY WORLD OF BIRDS

Conference Room (4th Floor)

Chair: Christine Köppl, Carl von Ossietzky University, Germany

10:35 New Zealand kiwi and its auditory, visual and olfactory specializations for a nocturnal life

Jeremy Corfield, University of Alberta, Canada

11:05 The quantum robin: light-dependent magnetoreception in migratory birds

Henrik Mouritsen, Carl von Ossietzky University, Germany

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

11:35 New developments in the chemical ecology in a seabird model: the Leach's storm-petrel

(Oceanodroma leucorhoa)
Gabrielle Nevitt, UC Davis, USA

12:05 Bigger than it looks? Sound localization cues generated by birds' heads

Christine Köppl, Carl von Ossietzky University, Germany

12:30 - 14:00 Lunch / CAREER-DEVELOPMENT SESSIONS

Picasso Room (4th Floor)

How to obtain a permanent position and tenure

Mentors: Andrew Barron, Macquarie University, Australia; Ari Berkowitz, University of Oklahoma, USA; Elke Buschbeck, University of Cincinnati, USA, Jean-Marc Devaud, University Paul Sabatier, France; Shreesh Mysore, Johns Hopkins University, USA

Publishing at early stages: how to pick the right journal and enhance your chances of publication success Mentors: John Hildebrand (PNAS), Patrizia d'Ettorre (Sci Reports, Frontiers), Hans Hofmann (Behavioral Ecology), Catherine Carr (J. Neurophys); Charlotte Rutledge (Company of Biologists JEB)

Women in science

Mentors: Darcy Kelley, Columbia University, USA; Alison Mercer, University of Otago, New Zealand; Aurore Avargues-Weber, University of Toulouse, France; Daphne Soares, University of Maryland, USA; Lidia Szczupak, University of Buenos Aires, Argentina

14:00 - 15:00 PLENARY LECTURE 7

Grand Ballroom 1 (2nd Floor)

Presenter: Martin Giurfa, CNRS - University of Toulouse, France

Andreas Nieder, University of Tübingen, Germany

Of hairy and feathered primates - neuroethology of numerical competence in monkeys and crows

15:00 - 15:30 Coffee break

15:30 -17:30 CONCURRENT INVITED SYMPOSIA

X. NEURAL MECHANISMS OF SPATIAL PERCEPTION AND NAVIGATION

Grand Ballroom 1 (2nd Floor)

Chair: Khaleel Razak, University of California, USA

15:45 Neural constructs of magnetic space lead to homing behavior in pigeons

David Dickman, Baylor College of Medicine, USA

16:20 The role of the midbrain SC in natural orienting behaviors of the echolocating bat

Melville Wohlgemuth, Johns Hopkins University, USA

16:55 Cortical mechanisms of sound localization in the pallid bat

Khaleel Razak, UC Riverside, USA

XI. EVOLUTIONARY	MECHANISMS	OF SENSORY	LOSS AND	REGAIN
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Grand Ballroom 2 (2nd Floor)

Chairs: Jakob Christensen-Dalsgaard, University of Southern Denmark, Denmark and Kim Hoke, Colorado State University, USA

15:35 The development and evolution of vertebrate lateral line electroreceptors
Clare Baker, Cambridge University, UK

16:05 Loss of sweet taste in birds and re-evolution of sweet taste in hummingbirds
Maude Baldwin, Harvard University, USA

16:35 Evolutionary reduction and regression of tympanal hearing organs in insects
Johannes Strauss, University of Giessen, Germany

17:05 To ear or not to ear? Convergent loss of late-forming ears in toads

XII. A BRAIN WITHIN THE BRAIN: SENSORY INTEGRATION AND NETWORK LOGIC OF THE *DROSOPHILA* CIRCADIAN CLOCK

Conference Room (4th Floor)

Chairs: Fernanda Ceriani, Institute Leloir, Argentina and Joerg Albert, University College London, UK

Molly Womack, Colorado State University, USA

15:35 Circadian timing of *Drosophila* Emergence
 John Ewer, University of Valparaiso, Chile

 16:05 Sensory conflict and multimodal entrainment of the *Drosophila* circadian clock
 Ross Harper, UCL, UK

 16:35 The effect of diurnal rhythm on the sensitivity limit of mouse vision
 Sanna Koskela, University of Helsinki, Finland

17:05 Daily rewiring of adult networks in *Drosophila* Fernanda Ceriani, Leloir Institute, Argentina

17:30 - 18:00 Coffee break

18:00 - 20:00 ISN BUSINESS MEETING Grand Ballroom 1 (2nd Floor)

20:00 Walk to banquet

20:00 - 24:00 BANQUET Club Uruguay Address: Peatonal Sarandí 584

POSTER SESSION I

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

AUTHORS	ABSTRACT TITLE	POSTER
ANATOMY & NEUROANATOMY		
Wulfila Gronenberg	Chemosensory pathways in spiders and their kin.	PI-01
Byron Van Nest	Synaptic organization in the honey bee mushroom body calyces does not predict performance on a challenging, ecologically relevant, visual learning task.	PI-02
Jitte Groothuis	Miniature Masterminds — Novel insights on Haller's rule and effects of extreme brain scaling on neural architecture in Nasonia wasps.	PI-03
Kaveri Rajaraman	Matched acoustic reception systems to unusually low frequency calls produced by a paleotropical bushcricket.	PI-04
Daphne Soares	Differences in head morphology of a cavefish and its surface ancestor as explored by microCT and microMRI.	PI-05
BEHAVIORAL PLASTICITY		
Marta Moita	Freezing in response to inescapable looming stimuli is sexually dimorphic.	PI-06
Elodie Urlacher	Honey bees show responses to alarm pheromone that are flexible yet consistent, and can be mimicked by treating bees with allatostatins.	PI-07
Natalia Uriarte	Role of reproductive context and pup development on the behavioral flexibility of mother rats.	PI-08
Yaara Saad	You are what you eat: Cannibalism-mediated neuromodulation of behavioral phase traits in the desert locust.	PI-09
Agustina Cano	Spatial learning in kissing bugs: appetitive and aversive conditioning.	PI-10
Arseny Finkelstein	Honey bee punishment and reward pathways: prior experience alters biogenic amine levels and modulates sucrose responsiveness.	PI-11
Corie Charpentier	The role of pH and GABAergic signaling in detection of predator chemical cues in a larval crab.	PI-12

AUTHORS	ABSTRACT TITLE	POSTER
Chris Korey	Plasticity of external setae during claw transformation in the snapping shrimp, <i>Alpheus angulosus</i> .	PI-13
CIRCADIAN RHYTHMS		
Evelyn Rieber	Behavioral and anatomical studies of daily rhythms in solitarious and gregarious desert locusts.	PI-14
lván Beltrán Arévalo	Aggressive behaviour and circadian rhythms: Behavioural analysis in the lizard <i>Gonatodes</i> <i>albogularis</i> .	PI-15
Diana Franco	Central vs. peripheral circadian control of oviposition in Drosophila melanogaster.	PI-16
Adriana Migliaro	Free running in the wild: circadian rhythmicity in electric behavior in two species of South American weakly electric fish.	PI-17
Sofia Polcowñuk	Contribution of the BMP pathway to the operation of the circadian network in adult <i>Drosophila</i> .	PI-18
María Moreno	Non-locomotion dependent nocturnal increase in the electric behavior of the weakly electric fish, <i>Gymnotus omarorum</i> .	PI-19
COMMUNICATION		
Guillermo Rehermann	Pheromone autodetection in a noctuid moth: GC-EAD response of female Pseudaletia adultera to its own sex pheromone components.	PI-20
Chanchal Yadav	Invitation by vibration: Social caterpillars use vibroacoustic signals to advertise 'accommodations' to potential shelter mates.	PI-21
Federico Reyes	Odour oddity: females recognize conspecific males based on olfactory cues in an annual fish with intense sexual selection.	PI-22
Philip Stoddard	Signals of electric fish encode different traits under different food regimes.	PI-23

POSTER SESSION I

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

AUTHORS	ABSTRACT TITLE	POSTER
Walter Wilczynski	Experience with social signals modifies peripheral auditory processing in green treefrogs (<i>Hyla cinerea</i>).	PI-24
Sharad Shanbhag	Neural Mechanisms in Acoustic Communication and Emotion: The Basolateral Amygdala of Bats and Mice.	PI-25
Joerg Henninger	Court and spark in the wild: communication at the limits of sensation.	PI-26
DECISION MAKING		
Varvara Dyakonova	Effects of physical load on decision-making and activity of serotonergic neurons in the snail <i>Lymnaea stagnalis</i> .	PI-27
Mauro Ramirez	Novelty-induced hypofagia in pigeons (<i>Columba livia</i>): description of behavioral responses, the effects of re-exposure and sex differences.	PI-28
Nouvian Morgane	Appetitive floral odours prevent aggression in honeybees.	PI-29
Federico Pedraja	Object detection in electrosensory learning: the action-perception loop in <i>Gnathonemus petersii</i> .	PI-30
ECOLOGY & EVOLUTION		
Kent Dunlap	Predators inhibit brain cell proliferation in natural populations of electric fish, <i>Brachyhypopomus occidentalis</i> .	PI-31
Mauricio Losilla	The transcriptional basis of divergent electric organ discharges in <i>Paramormyrops</i> electric fish.	PI-32
William Pitchers	The Genomic Basis of Signal Complexity in Paramormyrops electric fish.	PI-33
Rodrigo Suárez	Evolution of bilateral topography in the mammalian neocortex.	PI-34
Rüdiger Krahe	Genetic drift and natural selection as driving forces in the evolution of electric signals in weakly electric fish.	PI-35

AUTHORS	ABSTRACT TITLE	POSTER
LEARNING, MEMORY & COGNITION		
Lizeth Pedraza Correa	Training intensity during sequential contextual fear conditioning modifies the rate of systems consolidation and memory quality: Implications for consolidation of multiple memory traces.	PI-36
Heidi González	Acute Stress in <i>Neohelice granulata</i> impairs memory retrieval but no memory re-activation.	PI-37
Hans Smid	The role of dopamine and octopamine in associative learning of the parasitic wasp <i>Nasonia vitripennis</i> : effects of antagonists.	PI-38
Martín Klappenbach	Aversive and appetitive memories compete during retrieval in the crab <i>Neohelice</i> .	PI-39
Amélie Cabirol	Experience during adult brain maturation is required for the development of complex cognitive capacities in honey bees.	PI-40
María Sotelo	Spatial navigation in amphibians: Importance of the medial pallium.	PI-41
Jean-Marc Devaud	Brain plasticity and complex learning tasks in the honey bee: recruitment of specific neural circuits allows ambiguity resolution.	PI-42
Theo Mota	Octopamine and dopamine modulate appetitive visual learning in Africanized honeybees.	PI-43
Candela Medina	Study of ADF/cofilin as a regulator of actin cytoskeleton dynamics in fear memory labilization and reconsolidation.	PI-44
Christina Burden	Honey bee learning and memory impairments caused by selenium ingestion may be mediated by mechanisms in the gut.	PI-45

AUTHORS	ABSTRACT TITLE	POSTER
Rodrigo Sierra Ordoñez	Early cortical activity is required for the formation and expression of remote fear memories: interactions with memory reconsolidation.	PI-46
Gervasio Batista	Translational control of learning and structural plasticity during the sensitive period for imprinting in chickens.	PI-47
Rayna Harris	Enhancing Discovery-based Training in the Neural Systems & Behavior Course.	PI-48
Jean-Nicolas Audet	Differentially expressed glutamate and dopamine receptors in two sister species of wild birds with widely divergent cognitive abilities.	PI-49
Davide Potrich	Quantity Discrimination by Zebrafish (Danio rerio).	PI-50
Sarah Schumacher	Multisensing and Cross-modal object recognition in a fish.	PI-51
MOTOR SYSTEMS		
Graciela Unguez	Electrical activity-dependent regulation of muscle gene expression in the electric organ after chronic stimulation in live <i>Sternopygus macrurus</i> .	PI-52
Kosuke Hamaguchi	Distributed encoding of vocal timing revealed by brain cooling and intracellular recordings in singing birds.	PI-53
Frederic Libersat	Modulation of cockroach's postural motor activity during quiescent and venom-induced lethargic states.	PI-55
Guy Levy	Octopus arms keep the octopus head horizontal to simplify control of the flexible arms during locomotion.	PI-56
Ritwika Mukherjee	Adaptive Control of Caterpillar Proleg Grip-Release.	PI-57
Joshua Puhl	Locomotion and Coordination: Mechanisms Underlying Homeostatic Plasticity Following Injury to the CNS.	PI-58
Barry Trimmer	Climbing in complex environments: gait adaptation by a soft-bodied invertebrate.	PI-59

AUTHORS	ABSTRACT TITLE	POSTER
NEUROENDOCRINOLOGY & NEUROMODULATION	DN .	
Lucía Zubizarreta	The role of estradiol underlying non-breeding territorial aggression in a teleost fish: a complementary approach from the field and the lab.	PI-60
Matías Pandolfi	From the mouth to the brain and beyond: an L-tryptophan-enriched diet modulates agonistic behavior and neuroendocrine activity in a South American cichlid fish.	PI-61
Matías Muñoz	Vasotocin expression in the preoptic area of frogs Batrachyla under noise exposure.	PI-62
Alejandro Delorenzi	Expression: one of the possible fates of reactivated long-term memories.	PI-63
Rossana Perrone	Social effects of vasotocin on the agonistic electric displays of two species of weakly electric fish.	PI-64
Bettina Tassino	Stress and reproduction in ephemeral environments: tolerance or positive regulation?	PI-65
NOVEL TOOLS AND METHODS		
Michael Mangan	Habitat3D: Recreating the Visual History of Individual Insects.	PI-66
Diego Vázquez	In vitro bioassay of locomotor activity with sub-lethal doses of glyphosate on honeybee larvae.	PI-68
Martine Hausberger	A new ambulatory electroencephalography system for free moving horses. An example of application: evaluating attention.	PI-69
Benjamin Risse	HabiTracks: Visual Tracking of Insects in Their Natural Habitat.	PI-70

AUTHORS	ABSTRACT TITLE	POSTER
ORIENTATION & NAVIGATION		
Thomas Stone	Insect Navigation: From retinotopy to rotation invariant views.	PI-71
Mads Olsen	Directionality of sonar calls emitted by <i>Macrophyllum</i> macrophyllum in open and cluttered habitats.	PI-72
Theo Robert	Male bumblebees learn where to drink but not how to get back home.	PI-73
Verena Wahl	Virtual navigation in <i>Cataglyphis</i> desert ants – path integration on an air suspended spherical treadmill.	PI-74
Charlotte Doussot	Active vision strategies of bumblebees during learning flights.	PI-75
Cornelia Buehlmann	Multi-modal navigation in ants: What sensori-motor behaviours facilitate cue integration?	PI-77
Pauline Fleischmann	Experience-dependent landmark learning in desert ants (Cataglyphis fortis).	PI-78
Sarah Pfeffer	How to find home backwards? Stepping coordination and navigation during rearward homing in desert ant <i>Cataglyphis fortis</i> .	PI-79
Tamir Eliav	Towards bat hippocampal recordings in large-scale environments.	PI-80
Andrea Adden	Integration of optic flow and compass cues in the Bogong moth lateral accessory lobes.	PI-81
SENSORIMOTOR INTEGRATION		
Cody Manchester	Responses of locust motion—sensitive neurons during flight steering.	PI-82
Monique Amey-Özel	Sensory-motor integration in the Elephant nose fish — central anatomy and second order pathways of the trigeminal system.	PI-83
Pedro Aguilera	Dynamics of the electro-motor-sensory loop in pulse Gymnotiformes.	PI-84

AUTHORS	ABSTRACT TITLE	POSTER
Anne Wosnitza	Central-complex cells in freely hunting praying mantises encode prey motion and position.	PI-85
SENSORY: AUDITION		
Hugo Cousillas	Anesthesia and brain sensory processing: impact on neuronal responses in a female songbird.	PI-86
Ariadna Cobo-Cuan	Hearing diversity in moths revealed by non-invasive electrophysiology and distortion-products otoacoustic emissions.	PI-87
Manuela Nowotny	Differential auditory adaptation in katydids (bushcrickets) ears: low-frequency resonance vs. acoustic fovea.	PI-88
Michael Osmanski	Probing the Behavioral and Physiological Mechanisms Underlying Vocalization Discrimination in the Common Marmoset (<i>Callithrix jacchus</i>).	PI-89
Daniel Eberl	Genetic analysis of ion pumps in the generation of mechanoreceptor lymph.	PI-90
Michael Beckert	Representation of auditory space in the owl's forebrain.	PI-91
Ole Larsen	The cormorant ear — an adaptation to underwater hearing?	PI-92
Dmitry Vorontsov	Properties of primary auditory cells in male mosquitoes measured using positive feedback stimulation.	PI-93
Fanny Cazettes	Shared coding strategies for spatial hearing in birds and mammals.	PI-94
Orit Dashevsky	Echolocation abilities of rats.	PI-95
SENSORY: ELECTROSENSORY		
Alejandro Velez	What is the neural basis of evolutionary change in sensory perception? A case study in weakly electric fish.	PI-96
Michael Metzen	The role of neural correlations in information coding.	PI-97

AUTHORS	ABSTRACT TITLE	POSTER
Peter Moller	Spatial learning in weakly electric fish (<i>Gnathonemus</i> petersii).	PI-98
Sarah Jung	Weak signal amplification and detection by higher- order sensory neurons.	PI-99
Avner Wallach	Representation of electrolocation related stimuli in the thalamus analog of weakly electric fish.	PI-100
Jan Benda	Synchronous spikes are necessary but not sufficient for a synchrony code.	PI-101
Christopher Braun	Androgenic modulation of Chirp-like signals in the pulse-type Gymnotiform: <i>Steatogenys elegans</i> .	PI-102
Kathryne Allen	Neural coding strategies and behavioral performance in electrocommunication.	PI-103
SENSORY: OLFACTION AND TASTE		
Mara Andrione	Effects of a neonicotinoid pesticide on the honeybee odour discrimination.	PI-104
Gabriela De Brito	Absence of food alternatives promotes risk-prone feeding of unpalatable substances in honey bees.	PI-105
Pedro Fernández	Ontogenic development of morphometric heterogeneities at the vomeronasal pathways: The social rodent <i>Octodon degus</i> as a case in point.	PI-106
Meg Younger	Processing Human Cues in the Mosquito Brain.	PI-107
Marco Paoli	Stimulus-induced frequency modulation in the honeybee antennal lobe.	PI-108
SENSORY: VISION		
Bart Geurten	Gain modulation in the motion vision pathway.	PI-109
Sergei Kondrashev	Trichromatic colour vision is involved in visually-guided mating behaviour of toads.	PI-110
Kit Longden	The role of color vision in flight orientation in Drosophila melanogaster.	PI-111

AUTHORS	ABSTRACT TITLE	POSTER
Jamie Theobald	How does larval growth affect fruit fly vision and flight behavior?	PI-112
Anna Stöckl	Neural summation in the hawkmoth visual system boosts contrast sensitivity and information rate in dim light.	PI-113
Susanne Hoffmann	The neural basis of dim-light vision in echolocating bats.	PI-114
Rachel Parkinson	The effects of a neonicotinoid pesticide on the looming response of a motion detection pathway in <i>Locusta migratoria</i> .	PI-115
Estela Lanza	Prey and predator sensitive neurons in crabs.	PI-116
Cynthia Tedore	Visualizing the forest canopy through bird eyes.	PI-117
Mercedes Bencochea	Characterization of the activity of lobula columnar elements evoked by different parameters of visual stimulation that influence evasive behaviour in crabs.	PI-118
James Foster	Stellar Orientation with a Small Mind-How a Beetle Sees the Milky Way.	PI-119
Jay Stafstrom	Trade-offs drive dynamic investment in net-casting spider neuroanatomy.	PI-120
Mindaugas Mitkus	Raptor central fovea lacks rods and double cones.	PI-121
Juan Eesteban Salazar	Visual anatomy of the Band-winged Nightjar (<i>Systellura longirostris</i>): Binocular specializations, deep retinotectal projections and evidence for anatomical convergence among nocturnal insectivores.	PI-122
Gregor Belusic	Tetrachromatic retina and extraordinary polarization sensitivity in the european corn borer <i>Ostrinia nubilalis</i> Hübner.	PI-123
Zuzana Musilova	Color vision re-evolution in the deep sea? Story of 100 teleost fish genomes.	PI-124

AUTHORS	ABSTRACT TITLE	POSTER
Jan Hemmi	Behavioural and physiological estimates of spatial contrast sensitivity in fiddler crabs.	PI-125
Martin Luehrmann	Visual system diversity among closely related coral reef cardinalfishes.	PI-126
Jinglin Li	Functional significance of adaptation in optic flow- based spatial vision of aerial insects - a modeling study.	PI-127
Masayuki Yoshida	Comparison of the visual capabilities of an amphibious and an aquatic goby inhabiting tidal mudflats.	PI-128
Inés Berrosteguieta	Effects of light variations in cell proliferation in the retina of fish <i>Austrolebias charrua</i> .	PI-129
Elke Buschbeck	Rapid, coordinated eye growth in diving beetle larval eyes.	PI-130
Carola Yovanovich	Now you see it, now you don't: How much darkness does it take to disrupt behavioural colour discrimination in anuran amphibians?	PI-131
Ben Hardcastle	Integrating multiple visual inputs in the fly.	PI-132
SOCIAL BEHAVIOR		
José Alves Gomes	Electric organ discharge modulatuions in the pulse-type electric fish <i>Microsternarchus</i> (Gymnotiformes) exposed to a jamming stimulus.	PI-133
Daniella Agrati	Adult female rats are more sensitive than juveniles to cocaine's effects on sexual behavior.	PI-134
Linda Hernandez Duran	Sexual behavior and mating plugs in the Colombian orb-web spider <i>Leucauge acuminata</i> (Araneae, Tetragnathidae).	PI-135
Susie Hewlett	Characterisation of nestmate recognition cue learning in <i>Apis mellifera</i> and <i>Camponotus consobrinus</i> .	PI-136

AUTHORS	ABSTRACT TITLE	POSTER
SYNAPTIC PLASTICITY		
Darcy Gordon	Plasticity of sensory systems, synapses, and behavior in a remarkably polymorphic ant: the neurobiology of specialization in a social system.	PI-137
Agustina Falibene	Daily thermal fluctuations during pupal development affect the mushroom body synaptic connections in the adult ant brain.	PI-138
Annekathrin Lindenberg	Experience-independent and -dependent plasticity in opsin gene expression and in primary and secondary visual centers of the ant <i>Camponotus rufipes</i> .	PI-139
Mariana Rocha	Searching for muscle memory of vocal motor skills in the brain of female canaries.	PI-140

AUTHORS	ABSTRACT TITLE	POSTER
ANATOMY & NEUROANATOMY		
Macarena Faunes	Sensory innervation of the vocal organ of a songbird.	PII-01
Emma Van Der Woude	Breaking Haller's rule: consequences of brain isometry in minute parasitic wasps.	PII-02
Elena Lorenzi	Higher activity in the right septum of chick (<i>Gallus gallus</i>) exposed ti elementary motion cues related to animacy perception.	PII-03
Thomas Cronin	Developing a stomatopod optic lobe: neural organization beneath the double-retina eye of larvae of <i>Alima pacifica</i> .	PII-04
Hanne Thoen	Exploration of the neural architecture serving the elaborate visual system of stomatopods (mantis shrimps).	PII-05
BEHAVIORAL PLASTICITY		
Carolina Mengoni Goñalons	Insulin effect on appetitive behaviour depends on honeybee age.	PII-06
Lionel Igaz	Evaluation of cognitive, motor and social phenotypes in two rodent models of neurodegenerative disease.	PII-07
Joshua Lillvis	Neural mechanisms of courtship commitment in Drosophila melanogaster.	PII-08
Melissa Pavez Fox	Early handling promotes resilience to prenatal stress- induced deficits in juvenile rats.	PII-09
Susana Delgado-Ocaña	Erythropoietin promotes neural plasticity and spatial memory recovery in fimbria-fornix-lesioned rats.	PII-10
Eran Aamichai	Think before you leap: sensorimotor planning prior to takeoff enables accurate landing in an echolocating bat.	PII-11

AUTHORS	ABSTRACT TITLE	POSTER
Marcela Ferreño	MPOA and mPFC activation patterns after the co- expression of maternal aggression and sexual behavior in postpartum estrous rats.	PII-12
COMMUNICATION		
Yosef Prat	Vocal learning and information content in the acoustic communication of bats.	PII-14
Michael Smith	What's all the buzz about? - A novel form of seismic communication in chameleons.	PII-13
Jeppe Rasmussen	Syringeal kinematics and sound excitation in the avian vocal organ.	PII-15
Patricia Black Decima	Acoustic characteristics of courtship vocalizations in male Neotropical deer.	PII-16
Till Raab	Microhabitat distribution of weakly electric fish populations in Neotropical habitats.	PII-17
Frederic Theunissen	Voice discrimination in zebra finches.	PII-18
G. Troy Smith	Co-adaptation of electric organ discharges and chirps in South American ghost knifefishes (Apteronotidae).	PII-19
COMPUTATIONAL MODELING		
Gonzalo Corti Bielsa	Temporal variables in honeybee foraging regulation and its ergonomics: first insights from a theoretical approach.	PII-20
Julie Elie	Encoding models reveal how and when the meaning of communication calls is extracted by the avian auditory cortex.	PII-21
Richard Dewell	From dendritic channels to escape behavior: A computational and neuroethological approach to locusts' predator detection.	PII-22
Leonel Gómez-Sena	Modeling latency code processing in the electric sense.	PII-23
Olivier Bertrand	Choosing the type of route to learn and follow in cluttered environments: A model analysis.	PII-24

AUTHORS	ABSTRACT TITLE	POSTER
DEVELOPMENT		
María Castelló	Postnatal neurogenesis in the pulse type weakly electric Mormyrid <i>Mormyrus rume</i> .	PII-25
Lane Krejcova	Reduced maternal care and physical exercise affect age-related cognitive decline and microglial expression in the rat dentate gyrus.	PII-26
ECOLOGY & EVOLUTION	MOST RESERVE TO THE RESERVE TO THE RESERVE TO THE	
Allen Mensiger	Grounding the flying carp	PII-27
Paul Katz	Species-differences in serotonin receptor expression in homologous identified neurons correlate with differences in neuromodulation and behavior.	PII-28
Kristina Noreikiene	Quantitative genetic analysis of brain size variation supports the mosaic model of brain evolution in sticklebacks.	PII-29
Fabio Cortesi	Vision from water to air - molecular comparison across three independent transitions in fishes.	PII-30
Patric Vaelli	Origins of tetrodotoxin and molecular evolution in the voltage-gated sodium channels of poisonous newts (<i>Taricha granulosa</i>).	PII-31
GENETICS, EPIGENETICS & BEHAVIOR		
Sheila Ons	Neuropeptides in the regulation of the ecdysis innate behavior in the kissing bug <i>Rhodnius prolixus</i> .	PII-32
Wyatt Korff	Functional dissection and organization of descending interneurons during flight control in <i>Drosophila</i> .	PII-33
Alice Robie	Creation of brain-wide functional maps in <i>Drosophila</i> melanogaster.	PII-34
Jason Gallant	The mormyrid genome: projects, prospects and new tools for neuroethology.	PII-35
Mathias Wernet	Cellular contributions to polarization vision in Drosophila.	PII-36

AUTHORS	ABSTRACT TITLE	POSTER
Savvas Constantinou	Gene Knockdown in a Mormyrid Electric Fish Using Splice-Blocking Morpholino.	PII-37
Nils Becker	Light-inducible transcriptomic and epigenomic changes underlying brain plasticity in honeybees.	PII-38
LEARNING, MEMORY & COGNITION		
David Baracchi	Appetitive and aversive pheromones induce opposed modulations of appetitive sucrose responsiveness and learning and memory performances in honey bees.	PII-39
Benny Hochner	Octopus learning and memory is mediated by an extremely large neural network that is yet organized in a simple two-layer feedforward connectivity.	PII-40
Francisco Maza	Memory-related neural plasticity in the hemiellipsoid bodies, the crab's "mushroom bodies".	PII-41
Rafi Kliger	Involvement of frontal cortex in successive negative contrast.	PII-42
Rebekah Keating Godfrey	Linking variation in learning ability with regional brain metabolism in foragers of the ant <i>Novomessor cockerelli</i> .	PII-43
Hanna Chole	Effect of olfactory conditioning with different outcomes on antennal movements in honey bees.	PII-44
María Villar	Same context, different objects, long-term memory failure in object recognition.	PII-45
Roxana Josens	Olfactory Cues and Decision making in a nectivorous ant.	PII-46
Pamela Lopes Da Cunha	The emotional tagging: stress and the promotion of durable memories.	PII-47
Fernando Guerrieri	A new bioassay to quantify learning in mosquito larvae (<i>Aedes aegytpti</i>): escape response decreases due to habituation.	PII-48

AUTHORS	ABSTRACT TITLE	POSTER
Severine Trannoy	Short and long-lasting behavioral consequences of agonistic encounters between male <i>Drosophila melanogaster</i> .	PII-49
Sandor Lovas	Changes of electrical characteristics induced by priority pollutant hormones in <i>Lymnaea</i> identified neurons.	PII-50
Eliane Gonçalves De Freitas	Cognitive bias in cichlid fish: Pessimistic fish show increased cortisol levels.	PII-51
Isabelle George	Multisensory representation of social familiarity in the songbird brain.	PII-52
Julius Orlowski	Visual pop-out in barn owls: From behavior to neural correlate?	PII-53
MOTOR SYSTEMS		
Peter Swart	MicroCT for modelling the blowfly neck motor system.	PII-54
Boris Chagnaud	Cellular and network adaptations for superfast motor control in the rattlesnake <i>Crotalus atrox</i> .	PII-55
Adriane Otopalik	Electrotonically compact neurons with complex and variable morphologies produce robust, stereotyped physiology.	PII-56
Pedro Jacob	Timer modules for pulse period and chirp duration are distributed along the cricket abdominal ganglia.	PII-57
Daniel Knebel	Central-pattern-generators and higher-motor-center interplay in locust walking.	PII-58
Rodrigo Alonso	A model for the song system in Serinus Canaria.	PII-59
Ari Berkowitz	Flexion reflex can interrupt and reset the swimming rhythm.	PII-60
Santiago Boari	Neural coding of timbre in birdsong.	PII-61
Izaak Neveln	Using information theory to determine the centralization of control for locomotion in cockroaches.	PII-62

AUTHORS	ABSTRACT TITLE	POSTER
NEUROENDOCRINOLOGY & NEUROMODULATION		
Luciana Benedetto	Slow wave sleep in the postpartum rat and its litter weight gain are positively correlated and promoted after haloperidol treatment.	PII-63
Cecilia Jalabert	The male intrasexual aggression of the weakly electric fish, <i>Gymnotus omarorum</i> , as model system for the study of non-breeding territorial aggression.	PII-64
Aliana Giacometti	Effect of ketanserin in the regulation of satiety and the feeding behavior of carpenter ants.	PII-65
Stefan Schoeneich	Differential aminergic modulation of descending brain neurons-a potential mechanism for decision making in cricket social behavior.	PII-66
Giovanna Ponte	Octopamine in the octopus brain: mapping a "Neglected" Neuromodulator.	PII-67
ORIENTATION & NAVIGATION		
Antoine Wystrach	Continuous lateral oscillations as a core mechanism for taxis in <i>Drosophila</i> larvae.	PII-68
Elisa Frasnelli	Comparing the learning flights of bumblebee workers (<i>Bombus terrestris</i>) leaving a feeding site with those when leaving the nest.	PII-69
Uta Pegel	Processing of polarized and unpolarized light cues in the central complex of the desert locust.	PII-70
María Balbuena	Effects of sub-lethal doses of glyphosate on the navigation of <i>Apis mellifera</i> .	PII-71
Basil El Jundi	Spectral information as an orientation cue in dung beetles.	PII-72
Gily Ginosar	3D grid cells and border cells in flying bats.	PII-73
Ayelet Sarel	Vectorial representation of spatial goals in the bat hippocampus.	PII-74

AUTHORS	ABSTRACT TITLE	POSTER
Ross Mckinney	Bilateral integration of pheromonal inputs regulates the perception of body axis in <i>Drosophila</i> .	PII-75
Susanne Schwarze	Weak broadband electromagnetic fields are more disruptive to magnetic compass orientation in a night-migratory songbird (<i>Erithacus rubecula</i>) than strong narrow-band fields.	PII-76
Jerome Beetz	Precise target-distance coding during cortical suppression in echolocating bats.	PII-77
Rachel Muheim	Polarized light affects light-dependent magnetic compass orientation in birds.	PII-78
SENSORIMOTOR INTEGRATION		
Marina Martins	Proestrous female rats have lower prepulse inhibition of acoustic startle reflex.	PII-79
Sinan Zhang	Locust flight muscle activity and body orientation in response to objects moving along complex trajectories.	PII-80
Jan Ache	Descending control of visually-evoked landing in Drosophila.	PII-81
Harshada Sant	Conserved mechanosensory-motor circuits in insect antennae.	PII-82
Carola Staedele	The site of ectopic spike initiation facilitate signal integration in a sensory neuron.	PII-83
SENSORY: AUDITION		
Dennis Francos	Echolocation strategy of the fruit-eating bat <i>Artibeus jamaicensis</i> (Chiroptera: Phyllostomidae) for capturing tympanate moths.	PII-84
Dustin Brewton	Horizontal sound localization performance by a gleaning bat, <i>Antrozous pallidus</i> .	PII-85
Joreg Albert	Sex-specific mechanisms of hearing in mosquitoes.	PII-86

AUTHORS	ABSTRACT TITLE	POSTER
Marciel Quispe	Changes in EGR-1 expression in auditory nuclei of male frogs <i>Pleurodema thaul</i> depend on plasma testosterone levels.	PII-87
Jayne Yack	How and Why Do Caterpillars Hear?	PII-88
Marta Andrés	An efferent auditory system innervating the mosquito Johnston's organ.	PII-89
Michaela Warnecke	Effect of echo flow information on flight and echolocation behavior in the big brown bat.	PII-90
Jakob Christensen-Dalsgaard	The aquatic tympanic ear: convergent adaptations for underwater hearing in three tetrapods.	PII-91
Nicolas Adreani	Vocal interactions in freely moving zebra finches (<i>Taeniopygia guttata</i>): context dependent changes and a look into the brains' secondary auditory areas.	PII-92
Markus Schaefer	Sound specific right-left asymmetry in the cortical processing of communication calls before and after cortical silencing with Muscimol.	PII-93
SENSORY: ELECTROSENSORY		
Harold Zakon	An electric fish potassium channel specialized for ultrabrief discharges: sequence evolution and biophysics.	PII-94
Volker Hofmann	Neuronal Tuning of the Gymnotiform Electrosensory Lateral Line Lobe to Natural Communication Signals.	PII-95
Chengjie Huang	SK channels underlie efficient parallel processing and perception of natural sensory stimuli in the electrosensory system.	PII-96
Haleh Fotowat	Sensory-evoked serotonin dynamics and its relation to ongoing communication behavior.	PII-97
Jan Grewe	Phase-locking to high-frequency stimuli in the weakly electric fish <i>Apteronotus leptorhynchus</i> .	PII-98
Rafael Tuma Guariento	Pulse discrimination from two freely swimming Gumnoyus SP.	PII-99

AUTHORS	ABSTRACT TITLE	POSTER
Alejo Rodriguez-Cattaneo	Neural coding of electric images in pulse Gymnotiformes.	PII-100
Vielka Salazar	Distribution of voltage-gated sodium channels and sodium-potassium ATPases along the electric organ of the weakly electric fish <i>Brachyhypopomus gauderio</i> .	PII-101
SENSORY: MECHANOSENSATION & MAGNETOS	ENSATION	
Nadja Grap	Surface wave perception in Crocodiles.	PII-102
Jeffrey Triblehorn	Comparison of cercal system wind-sensitive filiform primary afferent responses in cockroaches <i>Periplaneta americana</i> and <i>Blaberus craniifer</i> .	PII-103
Diego Giraldo	Non-visual functions of visual opsins.	PII-104
Andrés Vidal-Gadea	Investigation of the molecular mechanisms responsible for magnetic transduction in the nematode <i>C. elegans</i> .	PII-105
SENSORY: OLFACTION AND TASTE	基础的是是用作品的图像是是是是是	
Gonzalo Budelli	Cold-avoidance behavior and thermoreceptor activity in <i>Drosophila</i> .	PII-106
Fernando Locatelli	Odor intensity and gain control in the honey bee olfactory system.	PII-107
Stefanie Neupert	Temporal or spatial odor-coding during nestmate recognition in ants?	PII-108
Benjamin Goldman-Huertas	Herbivorous and non-herbivorous drosophilids differ in behavioral and antennal responses to leaf volatiles.	PII-109
Rodrigo Velarde	The NPY signaling pathway modulates food intake under starvation conditions in adult worker honey bees.	PII-110
SENSORY: VISION		
Elisa Rigosi	Visual acuity in Apoid bees.	PII-111
Sandra Chaib	Single object resolution in budgerigars (<i>Melopsittacus</i> undulatus)	PII-112

AUTHORS	ABSTRACT TITLE	POSTER
Karin Nordstrom	Hoverfly responses to images with natural and artificial spatial statistics: behavioral and neural mechanisms.	PII-113
Peter Olsson	Colour constancy and relative colour vision in chicken.	PII-114
Jack Gray	Context-dependent population coding in an insect visual motion detection system.	PII-115
Ronald Petie	Vision is an important sense for the coral eating crown- of-thorns starfish.	PII-116
Mélanie Basnak	Polarization vision in crabs: a two-channel detection system?	PII-117
Florencia Scarano	Highly direction-selective visual neurons in the crab Neohelice granulata.	PII-118
Ichiro Fujita	What fraction of neurons is active when one views natural scenes?: Response sparseness in macaque cortical areas V1 and V4 estimated by 2-photon calcium imaging	PII-119
José Monteagudo	On the role of vision and gravity in head-body coordination of freely walking blowflies.	PII-120
Nathan Buerkle	Investigating the neural correlates of mate preference in <i>Heliconius</i> butterflies.	PII-121
Justin Marshall	A Polarized View of the World: more than pushing dung backwards up-hill or otherwise.	PII-122
Violeta Medan	Can you see it? Goldfish startle to polarized light stimuli.	PII-123
Linnea Van Griethuijsen	Colour preferences of the firebug (<i>Pyrrhocoris apterus</i>).	PII-124
John Kirwan	Seeing without eyes: visual performance and multimodal response in the purple sea urchin: Strongylocentrotus purpuratus.	PII-125
Genevive Phillips	Comparative visual ecology of three coral reef fish predators.	PII-126

AUTHORS	ABSTRACT TITLE	POSTER
Daniel Pessoa	Predator detection by primates: evaluating the role of color vision, background scenario, and detection distance.	PII-127
Finaly Stewart	Colour opponency in a tetrachromatic butterfly.	PII-128
Trevor Wardill	Dynamic squid iridescence provides polarized signals detectable by conspecifics.	PII-129
Paloma Gonzalez-Bellido	A record breaking eye: How the visual system of the tiny robber fly <i>Holcocephala fusca</i> outperforms dragonflies.	PII-130
Clément Cechetto	Visual intensity threshold in bats using psychophysics.	PII-131
Sam Fabian	Target interception by a predatory fly.	PII-132
Kristina Corthals	Head-body-coordination in <i>Drosophila melanogaster</i> .	PII-133
SOCIAL BEHAVIOR		
Andreia Cruz	Stop! Freezing time can a behavioral output become an alarm cue?	PII-134
Eva Fischer	Neural and physiological mechanisms of parental care in a biparental poison frog.	PII-135
Marcela Alsina-Llanes	Nueral basis of the variability in parental or infanticidal behavioral responses to pups in inexperienced mice (C57BL/6).	PII-136
Conrado Denadai	The crowder, the better: wood termite preference for infested rather than to uninfested wood.	PII-137
Alexandre-Benoit Roland	Neural basis of maternal and paternal care in poison frogs.	PII-138

AUTHORS	ABSTRACT TITLE	POSTER
SOCIAL BEHAVIOR		
Angeles Salles	NMDA receptor membrane expression during long- term memory consolidation in the central nervous system of the crab <i>Neohelice granulata</i> .	PII-139
Christopher Jernigan	Experience dependent changes in odor signaling in the Honey Bee Brain.	PII-140
Juan Grosso	Regulation of Neuroligins and Neuroxin 1 in the adult honeybee brain according to early olfactory experiences.	PII-141